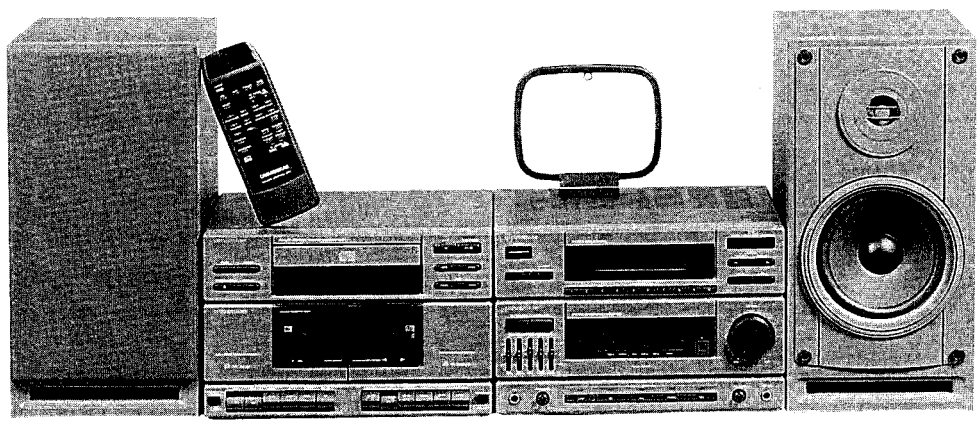
SERVICE MANUAL

MINI COMPONENT SYSTEM

AM/FM STEREO TUNER AMPLIFIER

DOUBLE CASSETTE TAPE DECK COMPACT DISC PLAYER



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■ SPECIFICATIONS

1. TUNER

- **FM SECTION**
  - TUNING RANGE ..... 87.5 ~ 108.1 MHz
  - SCAN STEP ..... 50 KHz
  - USABLE SENSITIVITY ..... 12 dB
  - S/N RATIO ..... 60 dB
  - T.H.D (1KHz) 0.8%
  - FREQUENCY RESPONSE ..... 20 Hz ~ 15 KHz
  - STEREO SEPARATION (1KHz) ..... 35 dB

- **AM SECTION**
  - TUNING RANGE ..... 522 ~ 1620 KHz
  - USABLE SENSITIVITY 800μV
  - SCAN STEP ..... 60 dB
  - S/N RATIO ..... 40 dB

2. AMPLIFIER SECTION

- OUTPUT POWER : 1% THD 40W
  1KHz AT 8 OHM
- S/N RATIO : 60 dB
- FREQUENCY RESPONSE: 50 ~ 20,000 Hz
- GRAPHIC EQUALIZER CONTROL:
  - 100 Hz±10 dB
  - 330 Hz±10 dB
  - 1K Hz±10 dB
  - 33 KHz±10 dB
  - 10 KHz±10 dB
- INPUT SENSITIVITY for 35W OUTPUT
  - 8 ohms at 1KHz
  - PHONO: 2.5 mV
  - AUX/TUNER/CD: 150 mV

3. CASSETTE DECK SECTION

- TRACK SYSTEM ..... 4 TRACK 2CH STEREO
  (DECK A) (DECK B)
- REC SYSTEM ..... AC BIAS SYSTEM
  (BIAS FREQ: 67 KHz)
- ERASE SYSTEM ..... AC BIAS
- TAPE SPEED ..... 4.76cm/SEC (NORMAL)
  9.52cm/SEC (HIGH)
- WOW AND FLUTTER ..... 0.3% WRMS
- FAST FORWARD TIME ..... 90 SEC ±10 SEC (C-60 TAPE)
- FREQ. RESPONSE ..... 125Hz ~ 6300Hz ±3 dB
  (NORMAL TAPE)
- ERASE RATIO ..... 40 dB
- CROSS TALK (REC/PLAY) ..... 40 dB

4. COMPACT DISC

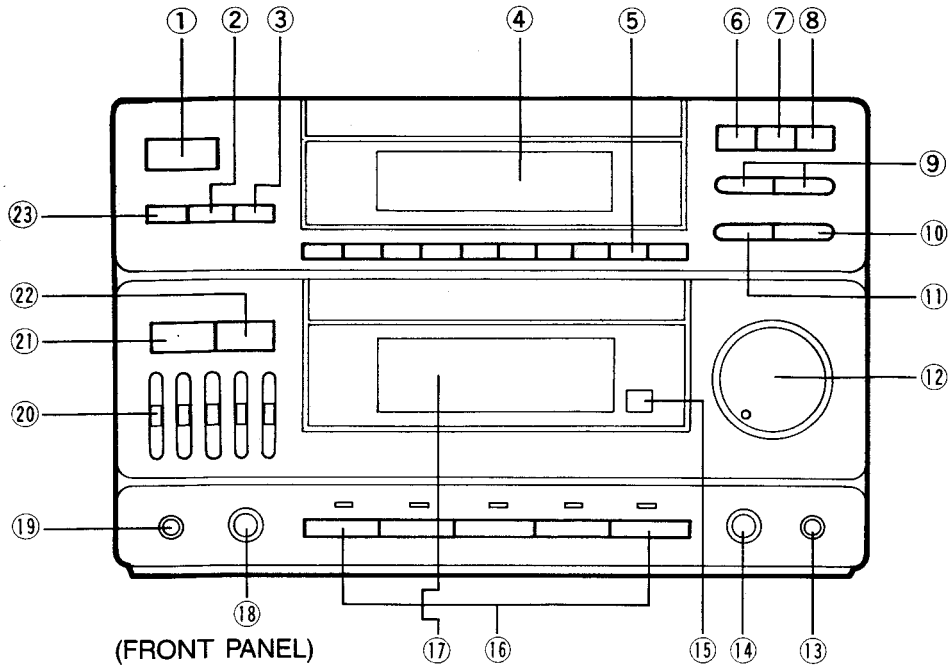
- FREQUENCY RESPONSE ..... 20 ~ 20 KHz
- S/N RATIO ..... 60 dB
- T.H.D (1 KHz) 0.2%
- DYNAMIC RANGE ..... 80 dB

5. GENERAL

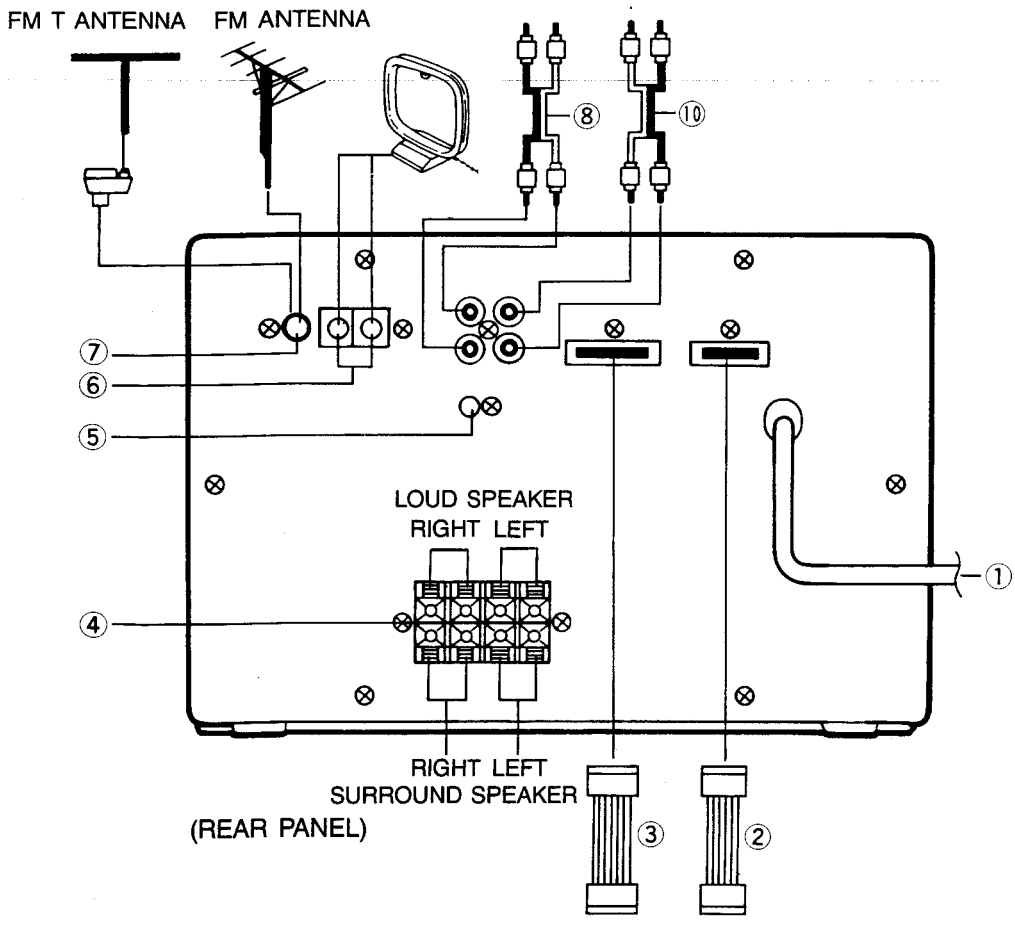
- POWER CONSUMPTION ..... 160 W
- POWER SUPPLY ..... AC 230V 50Hz
- DIMENSIONS (W×H×D) ..... 275×260×181 mm
- WEIGHT (W/SPEAKER) ..... 22 Kg

■ NAMES OF PARTS

1. TUNER, AMP PART



(FRONT PANEL)

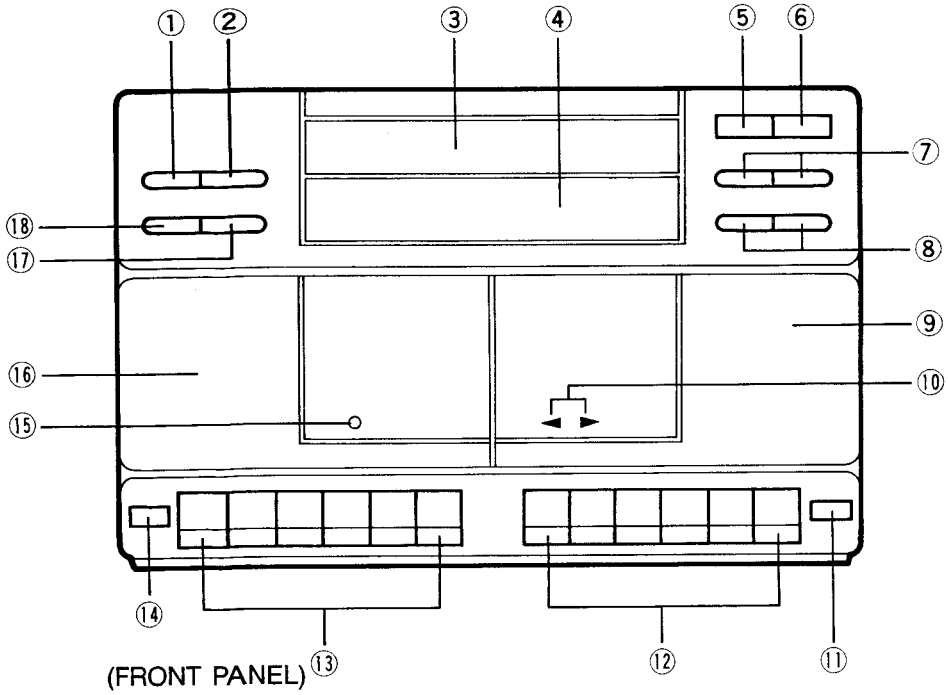


(REAR PANEL)

① POWER BUTTON
② DISPLAY BUTTON
③ MEMORY/CLOCK ADJ BUTTON
④ TUNER LCD
⑤ PRESET BUTTON
⑥ FM MODE BUTTON
⑦ AM/FM/TIMER CER BUTTON
⑧ AUTO/MAN BUTTON
⑨ HOUR, MINUTE/DOWN, UP BUTTO
⑩ PRESET SCAN BUTTON
⑪ MEMORY BUTTON
⑫ MAIN VOLUME
⑬ HEADPHONE JACK
⑭ BALANCE VOLUME
⑮ REMOCON SENSOR
⑯ FUNCTION BUTTON
⑰ LEVEL METER
⑱ MIC VOLUME
⑲ MIC JACK
⑳ GRAPHIC EQ VOLUME
㉑ SUPER BASS BUTTON
㉒ SURROUND BUTTON
㉓ MUTE BUTTON

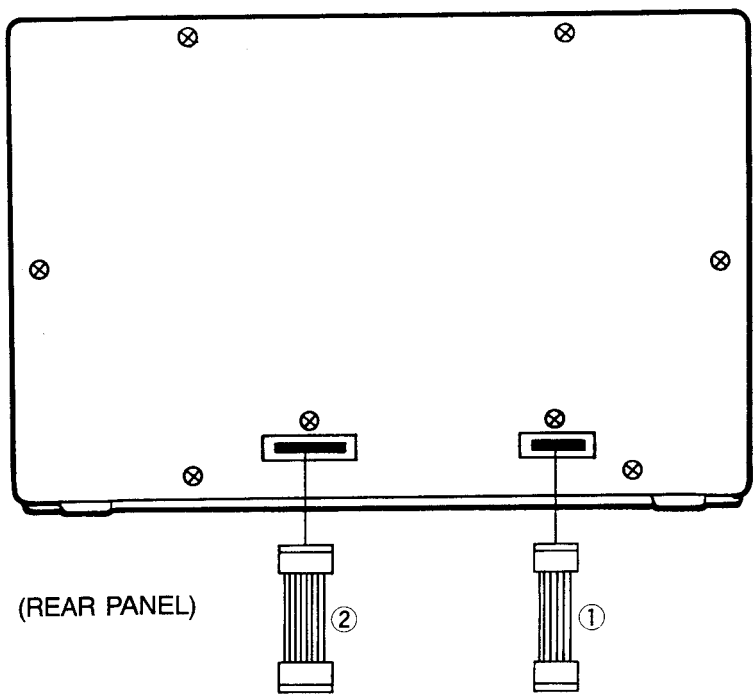
① AC INPUT CORD
② SYSTEM CONNECTOR (11P IN)
③ SYSTEM CONNECTOR (15P IN)
④ SPEAKER JACK
⑤ PHONO GND TERMINAL
⑥ AM ANT TERMINAL
⑦ FM ANT SOCKET
⑧ PHONO IN JACK
⑨ AUX IN JACK

2. CDP/TAPE PART



(FRONT PANEL)

① PROGRAM MEMORY BUTTON
② REPEAT BUTTON
③ CDP DOOR
④ CDP LCD
⑤ STOP BUTTON
⑥ PLAY/PAUSE BUTTON
⑦ SEARCH BUTTON
⑧ SKIP BUTTON
⑨ DECK "A" PLAY
⑩ PLAY DIRECTION L.E.D
⑪ TAPE SELECTOR BUTTON
⑫ DECK "A" BUTTON
⑬ DECK "B" BUTTON
⑭ HIGH DUBBING BUTTON
⑮ REC LAMP
⑯ DECK "B" REC/PLAY
⑰ DISPLAY BUTTON
⑱ OPEN/CLOSE BUTTON

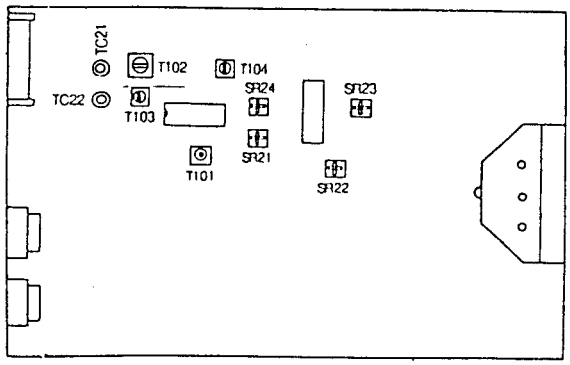


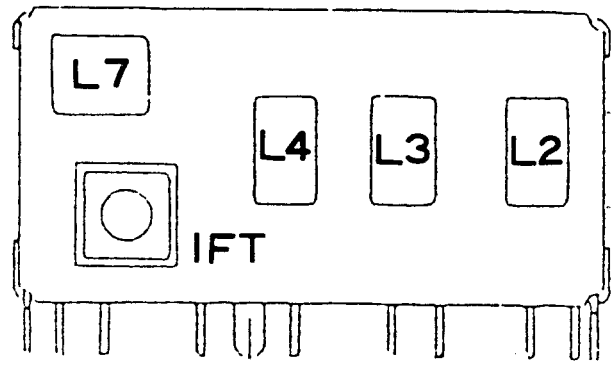
(REAR PANEL)

① SYSTEM CONNECTOR (11 PIN)
② SYSTEM CONNECTOR (15 PIN)

■ MEASUREMENTS AND ADJUSTMENTS

A. TUNER ADJUST POINT



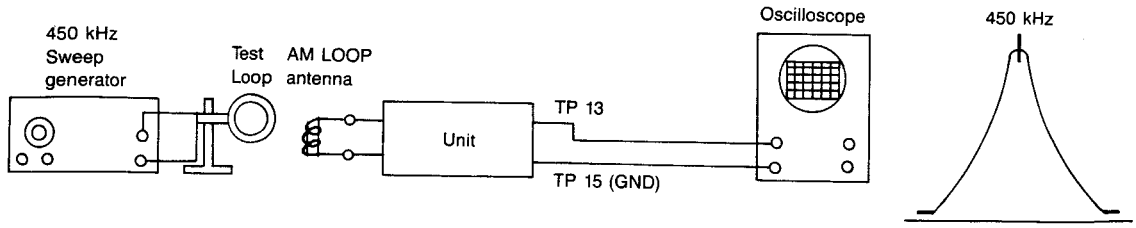


a. AM IF/RF ADJUSTMENT

FUNCTION/BAND POSITION ..... TUNER/AM

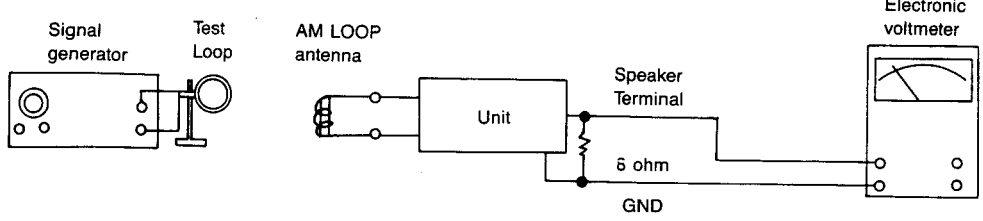
Step	Item	Input Circuit Setup	Output Circuit Setup	Tuner Setting	Adjust Point	Adjustment
1	IF Adjustment	Connect IF sweep output terminal to LOOP ANT	Connect IF sweep input terminal to IF-OUT terminal TP13 and GND	fmin band end	T104 (AA)	Adjust for max. amplitude with symmetrical response at 450 kHz
2	AM VT Adjustment		Digital DC Voltage Meter TP17 and GND	522 kHz 1620 kHz	T103 TC22	Adjust for DC 12V Adjust for DC 7V
3	Tracking (1)	612 kHz 400 Hz 30% mod. AM SG. LOOP ANT	Speaker Terminal	612 kHz	T102 AT	Adjust for max. output and best wave forms.
4	Tracking (2)	1404 kHz 400 Hz, 30% mod. AM SG. LOOP ANT	Speaker	1404 kHz	TC 21	Same as above
5	Repeat steps 3 and 4.					
6	AM SEEK Sensitivity Adjustment	AM SG. LOOP ANT 999 kHz 400 Hz 30% mod 60 dB/m	TP 14, GND (TP 15)	999 kHz	SR 21	Adjust for SQUAREWAVE

AM IF Adjustment

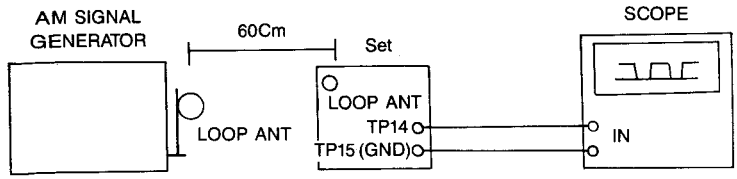


AM IF CURVE

AM Tracking



AM SEEK SENSITIVITY

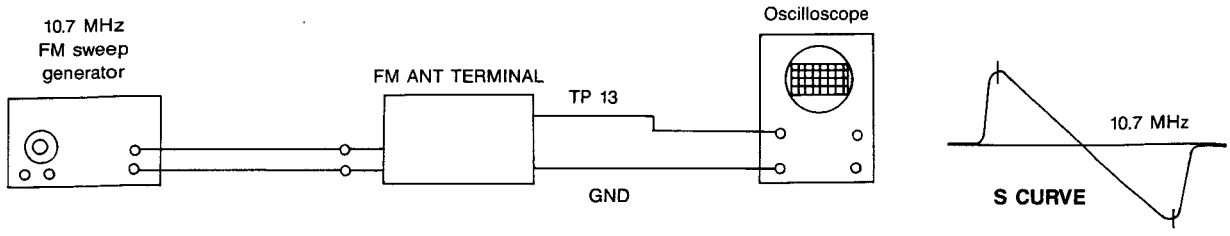


b. AM IF/RF ADJUST

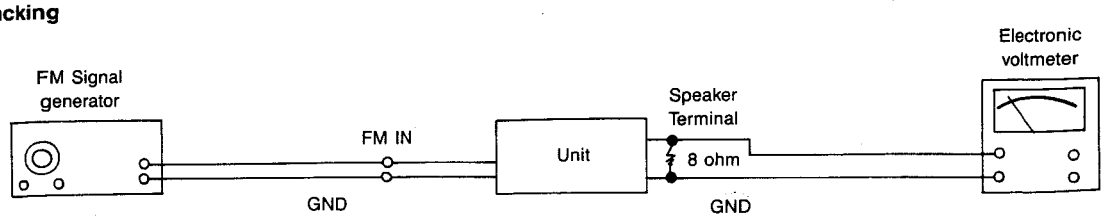
FUNCTION/BAND POSITION ..... TUNER/FM

Step	Item	Input Circuit Setup	Output Circuit Setup	Tuner Setting	Adjust Point	Adjustment
1	IF Adjustment	Connect FM IF sweep output terminal to FM ANT TERMINAL	Connect IF-OUT terminal TP13 to IF sweep input terminal	fmin band end	IFT	Adjust forstraight symmetrical S-curve with max amplitude.
2	FM VT Adjustment		Digital DC Voltage Meter TP18 and GND	87.5 MHz	L7	Adjust for DC 1.6V
3	Tracking (1)	FM SG. ANT Terminal 98.1 MHz, 1kHz ±22.5kHz dev	Speaker Terminal	98.1 MHz MONO	L2	Adjust for max. output and best waveform.
4	Tracking (2)	88.1 MHz, 1kHz ±22.5kHz dev	Speaker Terminal	88.1 MHz MONO	L3 L4	Same as above
5	Repeat steps 3 and 4.					
6	FM FD Adjustment	FM SG. ANT Terminal 98.1 MHz, 1kHz ±22.5 kHz dev, 60dB	TP11, TP12	98.1 MHz	T101 FD	Adjust for ±40mV
7	FM SEEK Sensitivity Adjustment	FM SG. ANT Terminal 98.1 MHz, 1kHz ±20dB ±22.5kHz dev.	TP14, TP15 (GND)	98.1 MHz	SR24	Adjust for SQUAREWAVE
8	FM MPX	FM SG. ANT Terminal 98MHz, 1kHz ST	TP16, TP15 (GND)	98.1 MHz	SR23	18kHz±0.05 KHz

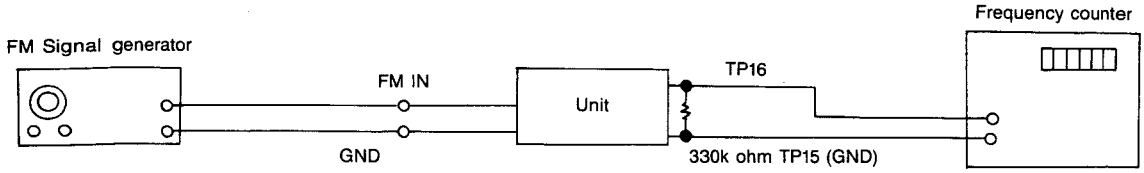
FM IF Adjustment



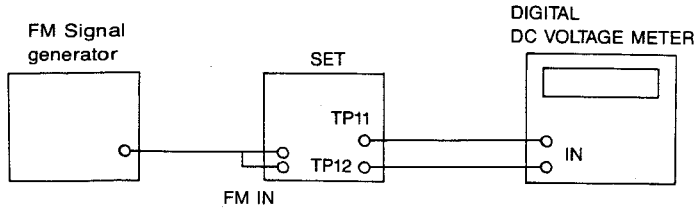
FM Tracking



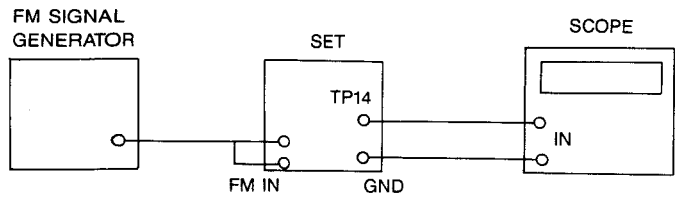
FM MPX VCO



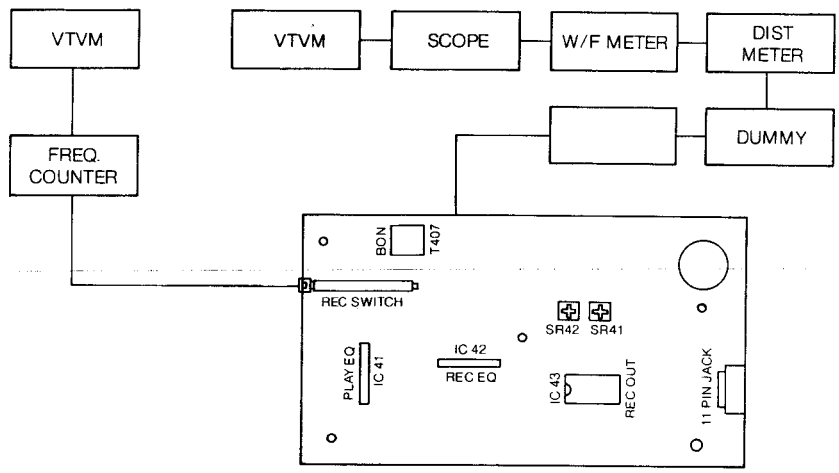
FM FD ALIGNMENT



FM SEEK SENSITIVITY

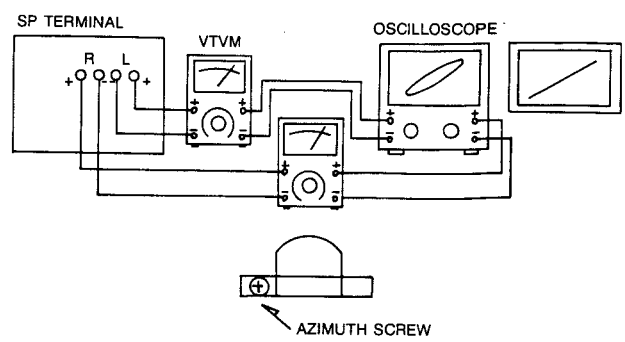


B. TAPE ADJUST POINT



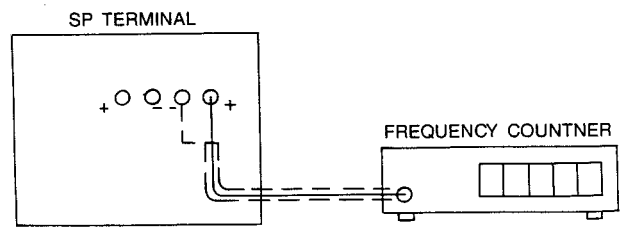
a. HEAD AZIMUTH ADJUSTMENT (Tape A.B)

1. Test equipment connection is shown in figure.
2. Playback the azimuth adjusted part (6.3kHz, −10dB) of the test tape (MTT-113) and regulate the angle adjusting screw so that the outputs of L-CH and R-CH are maximized. (When the adjusting positions are different with L-CH and R-CH, find a position where are the outputs of L-CH and R-CH are balanced, and then mark the adjustment.)
3. At the same time, draw a lissajous waveform and eliminate phase deflection.
4. After the adjustment, apply screw-lock to the angle adjusting value.



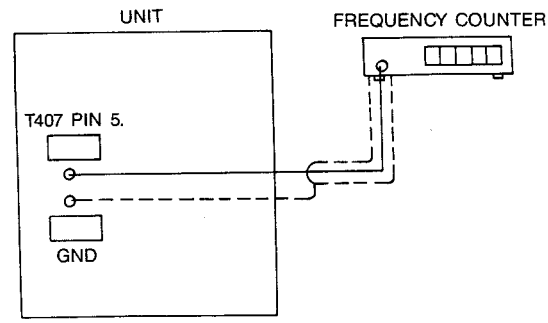
b. TAPE SPEED ADJUSTMENT (TAPE A)

1. Test equipment connection is shown in figure.
2. Place unit into "TAPE" position.
3. Playback the middle part of the test tape (MTT-111)
4. Place B DECK (REC DECK) into REC mode.
5. Adjust first SR42 for high speed (6000±60Hz) and then SR41 for normal speed (3000±30Hz).

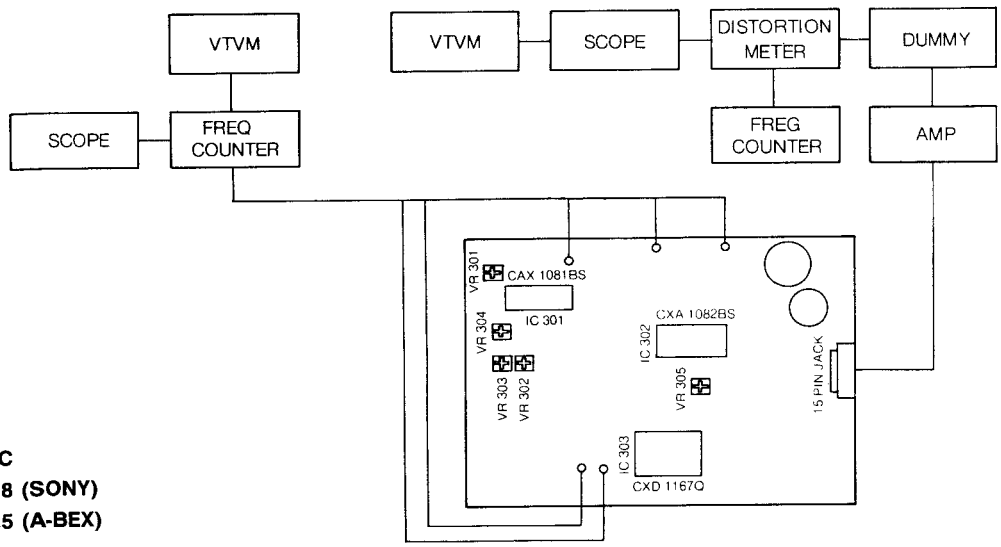


c. BIAS OSCILLATION ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Place unit into "TAPE" position.
3. Place cassette deck into REC mode.
4. Adjust T407 for 67 kHz±200 Hz on frequency counter reading.



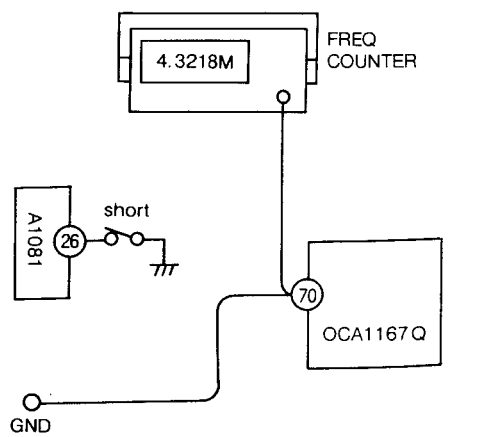
C. COMPACT DISC ADJUST POINT



- **TEST DISC**
  - **1) YEDS-18 (SONY)**
  - **2) TCD-725 (A-BEX)**

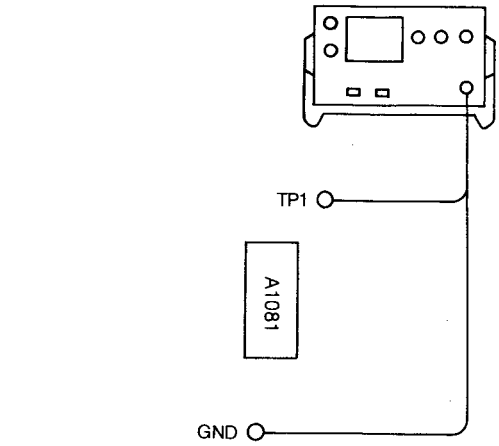
a. PLL ADJUSTMENT

1. Test equipment connection is shown in figure.
2. Place main GND and C307 short
3. Adjust VR305 for 4.3218 MHz (CDP STOP MODE)



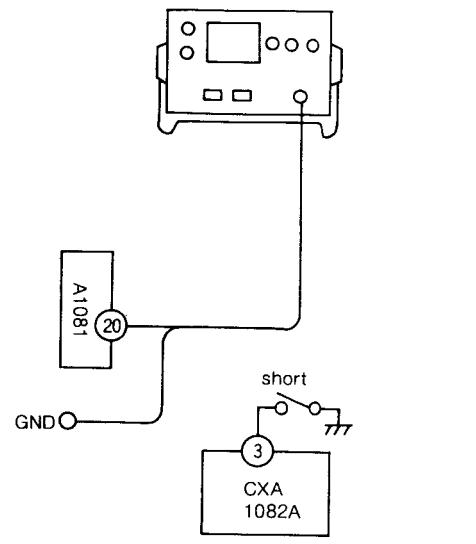
b. FOCUS BIAS ADJUSTMENT

1. Test equipment connection is shown in figure
2. PLAY DISC
3. Adjust VR304 for EYE PATTERN with Max and Best Diamond wave.



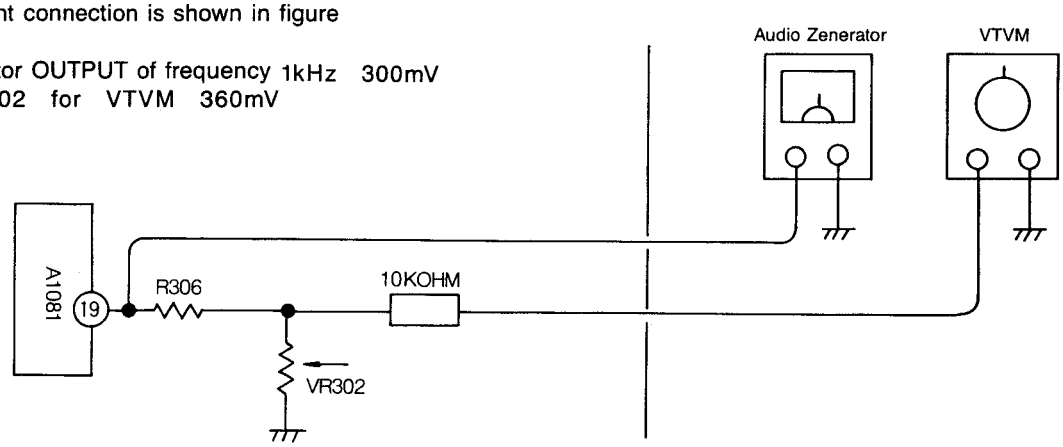
c. E.F BALANCE ADJUSTMENT

1. Test equipment connection is shown in figure
2. PLAY DISC
3. Place GND and IC102 Pin No 3 short
4. Adjust VR301 for TE SIGNAL OV



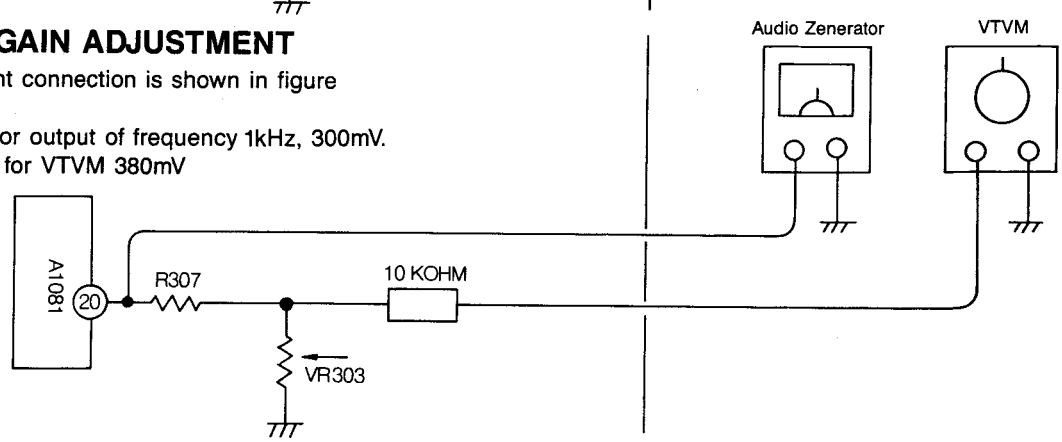
d. FOCUS GAIN ADJUSTMENT

1. Test equipment connection is shown in figure
2. PLAY DISC
3. Audio Zenerator OUTPUT of frequency 1kHz 300mV
4. Adjust VR302 for VTVM 360mV

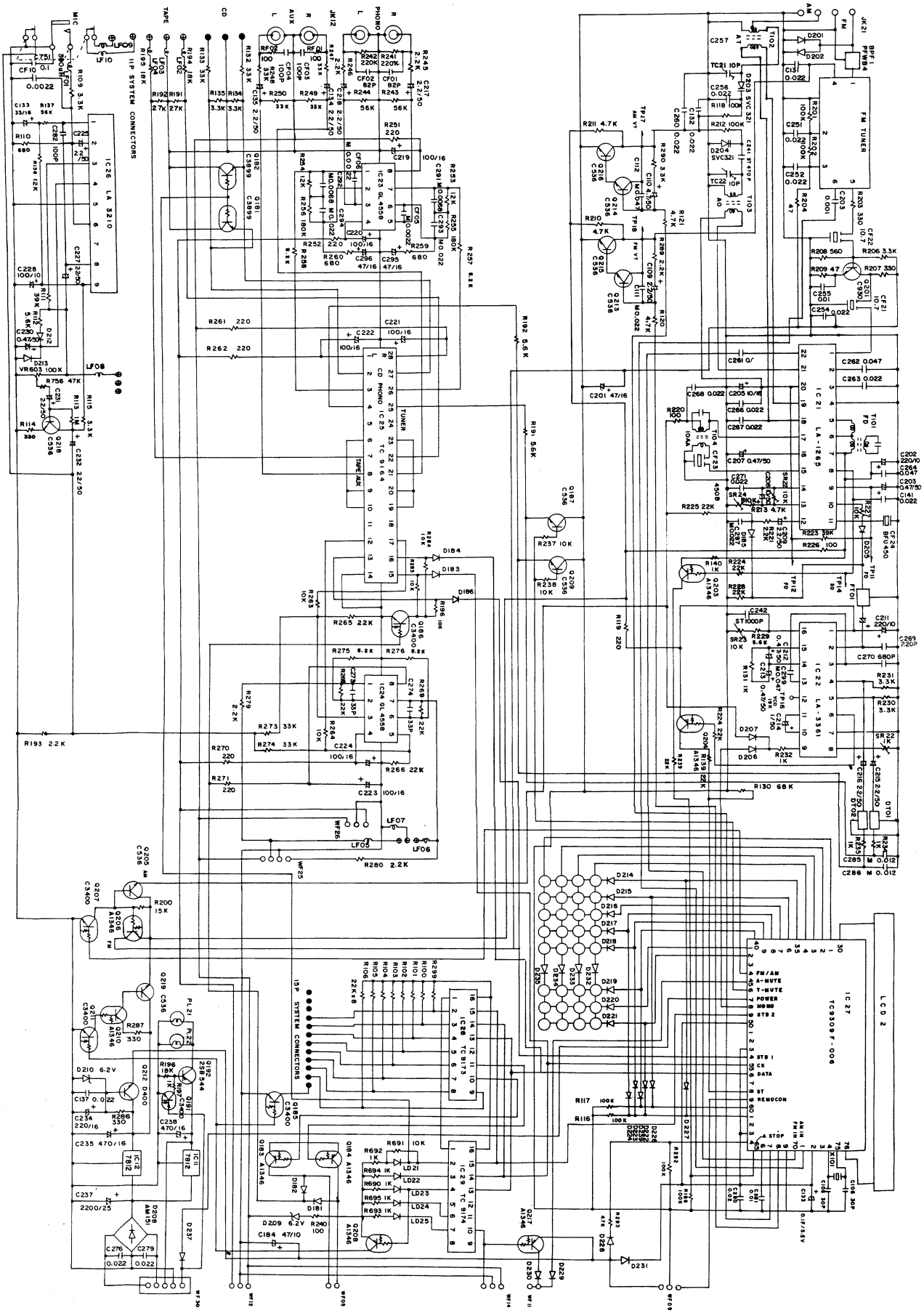


e. TRACKING GAIN ADJUSTMENT

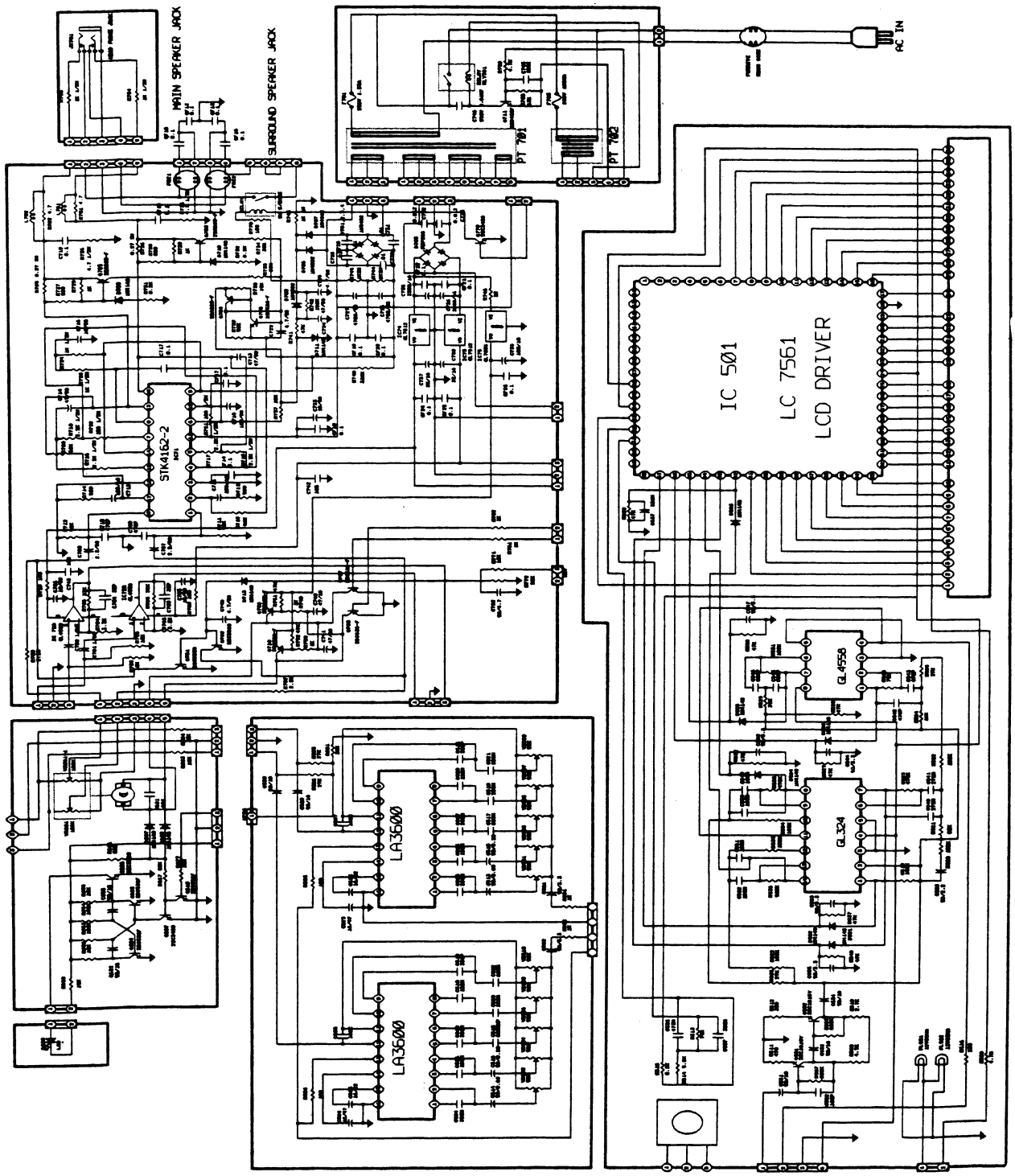
1. Test equipment connection is shown in figure
2. PLAY DISC
3. Audio Zenerator output of frequency 1kHz, 300mV.
4. Adjust VR303 for VTVM 380mV



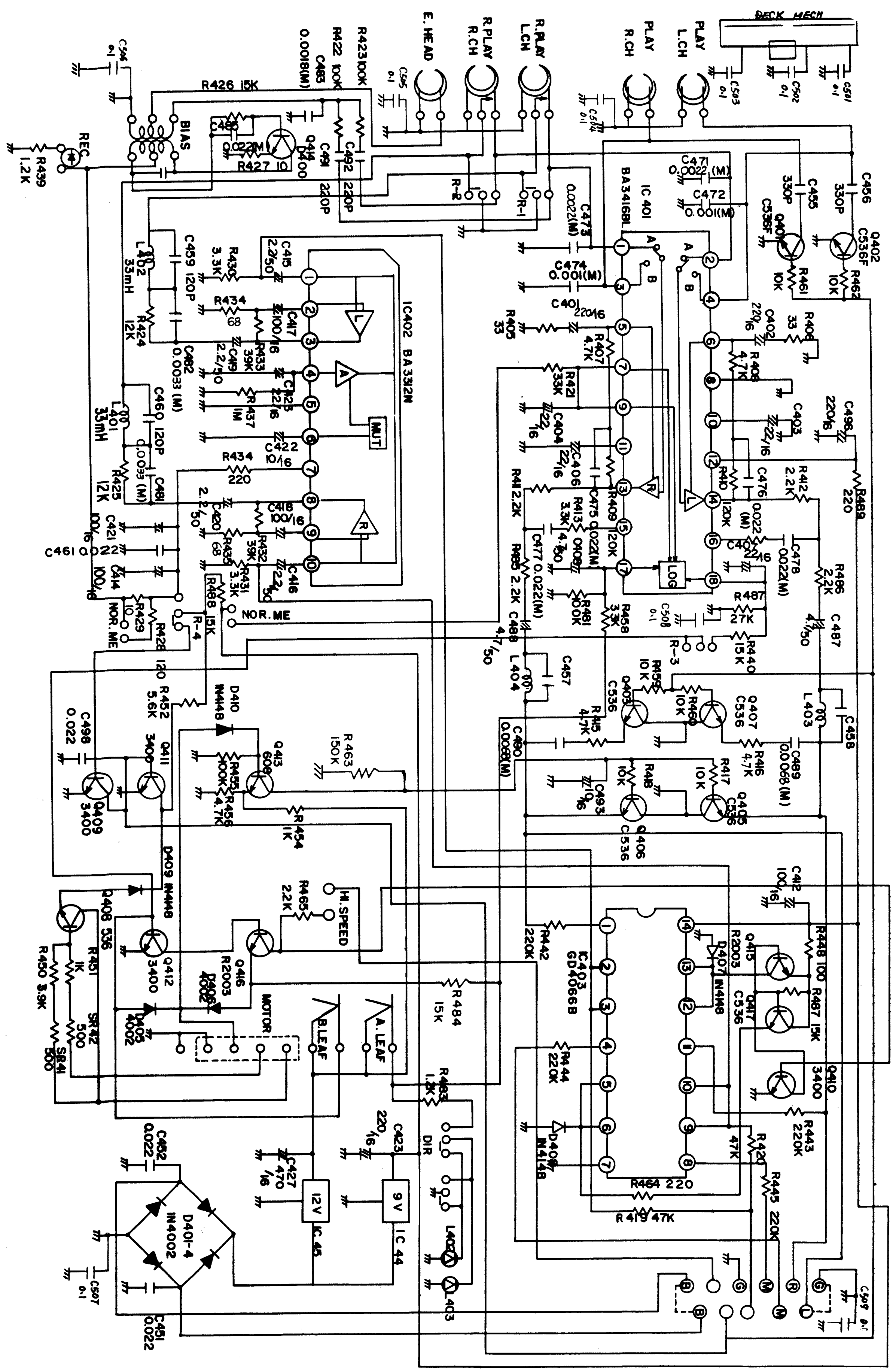
■ SCHEMATIC DIAGRAM (TUNER)



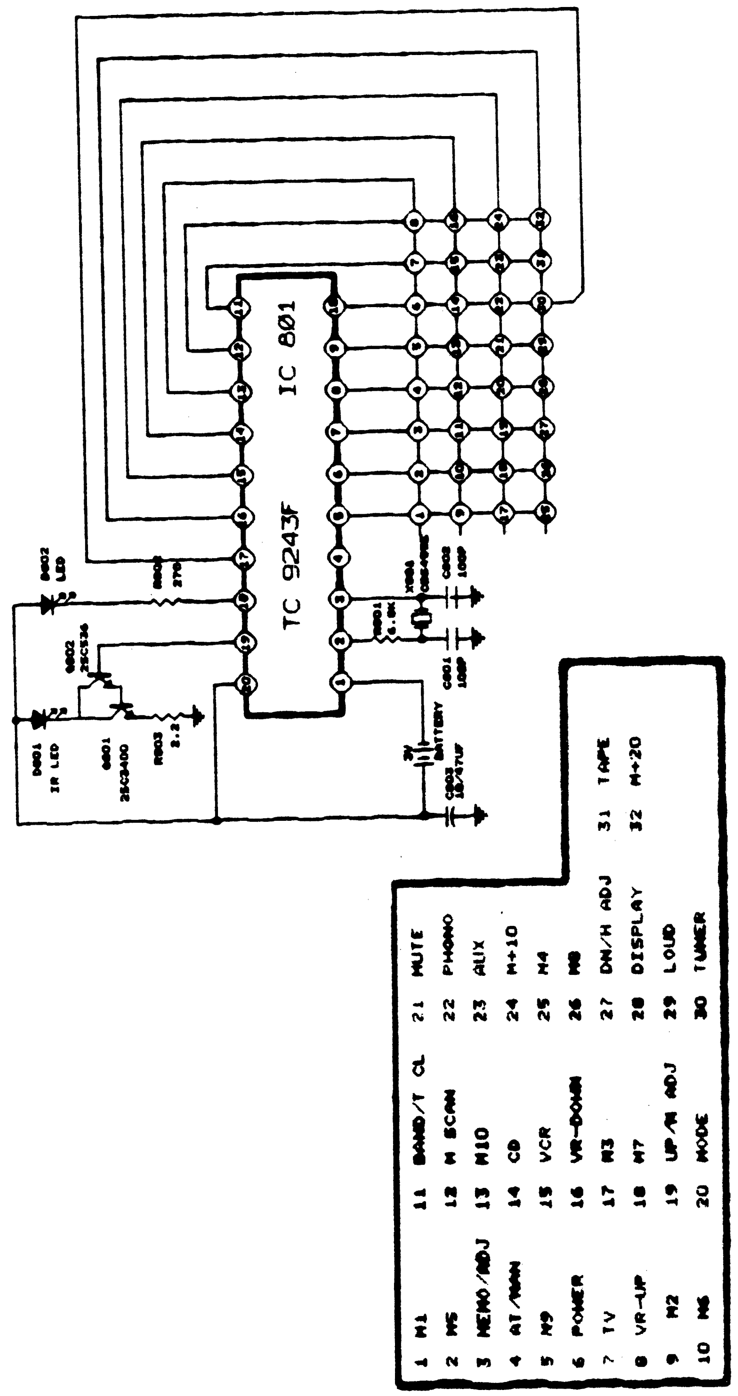
■ SCHEMATIC DIAGRAM (AMP)



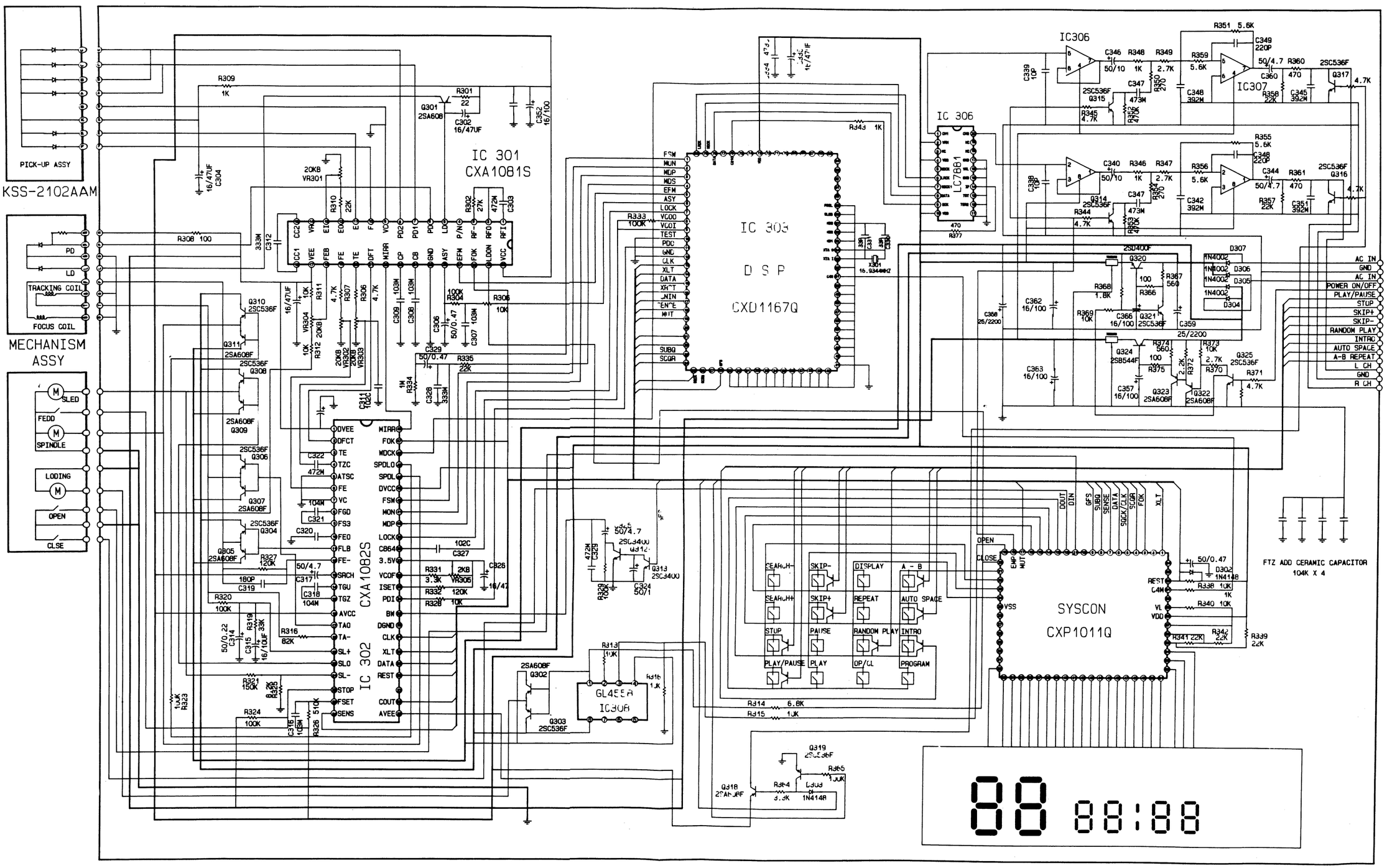
■ SCHEMATIC DIAGRAM (TAPE)



■ SCHEMATIC DIAGRAM (REMOCON)

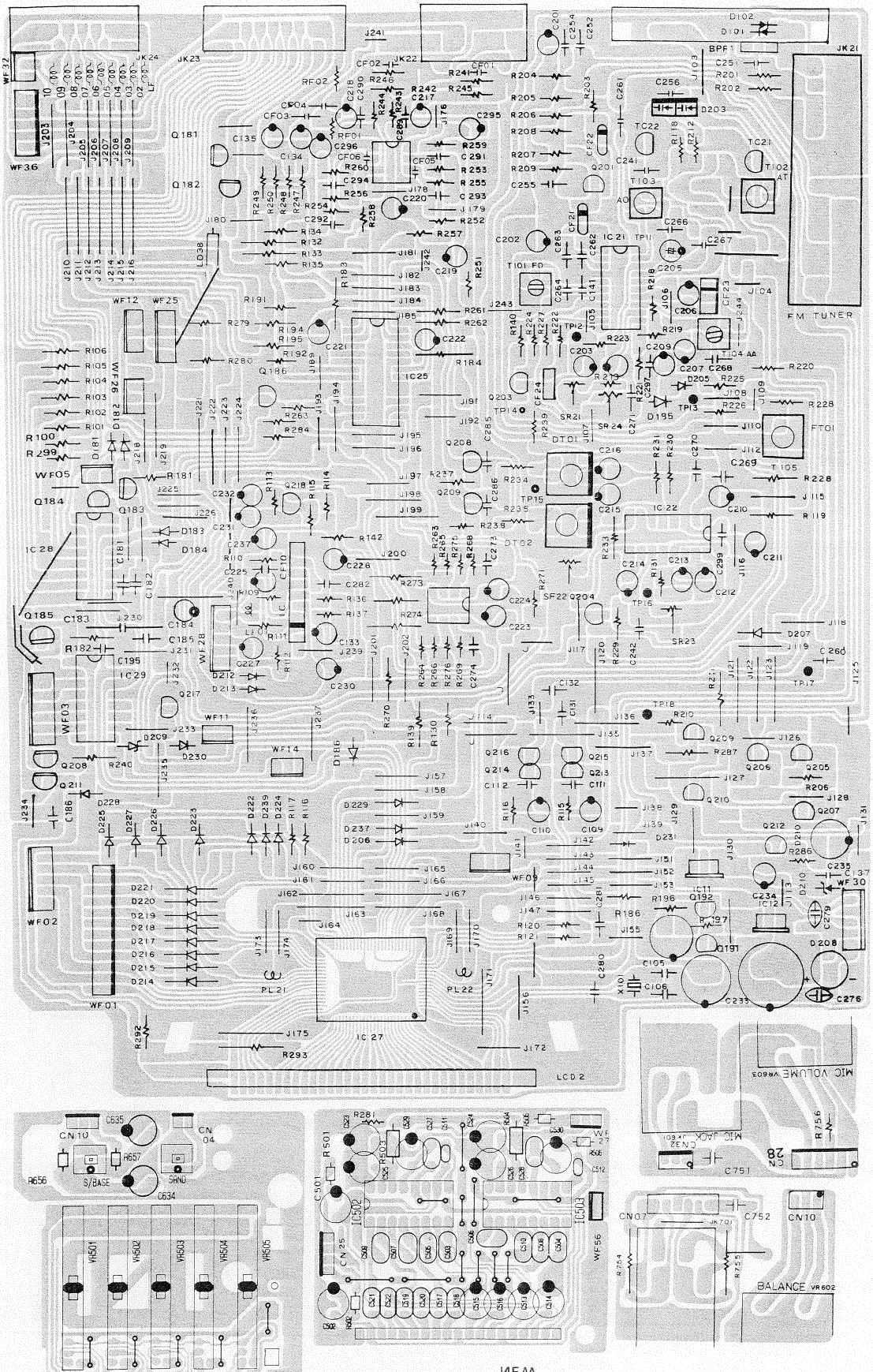

IC 8Ø1
TC 9243F
D802 LED
D801 IR LED
Q802 2SC536
Q801 2SC3400
BATTERY
1 M1
2 M5
3 MEMO/ADJ
4 AT/MAN
5 M9
6 POWER
7 TV
8 VR-UP
9 M2
10 M6
11 BAND/T CL
12 M SCAN
13 M10
14 CD
15 VCR
16 VR-DOWN
17 M3
18 M7
19 UP/M ADJ
20 MODE
21 MUTE
22 PHONO
23 AUX
24 M+10
25 M4
26 M8
27 DN/M ADJ
28 DISPLAY
29 LOUD
30 TUNER
31 TAPE
32 M+20

■ SCHEMATIC DIAGRAM (COMPACT DISC)



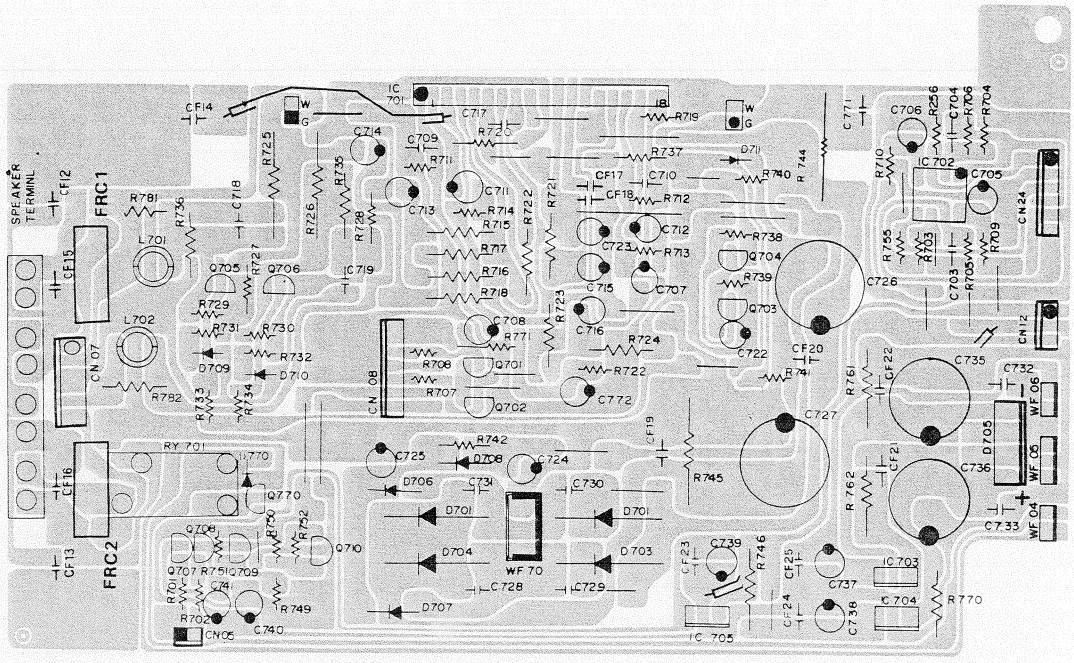
■ PCB TOP VIEW (TUNER/JACK/EQ VR)

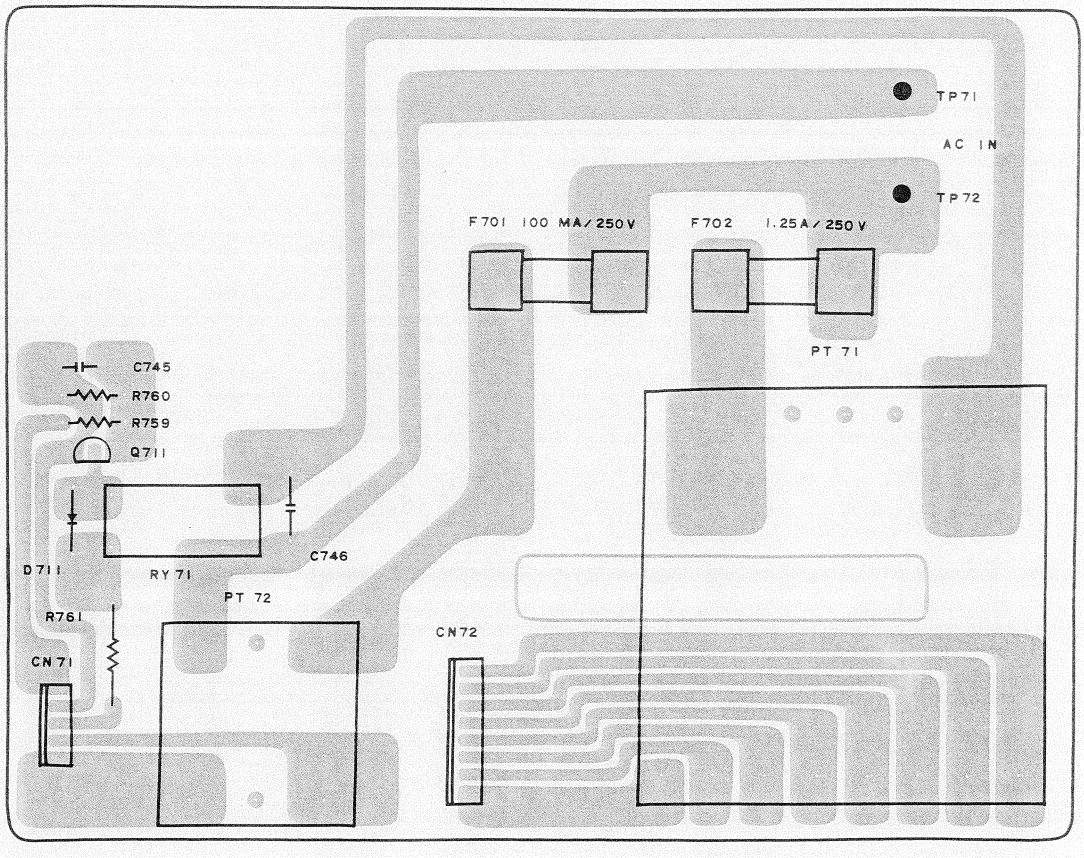
NEW



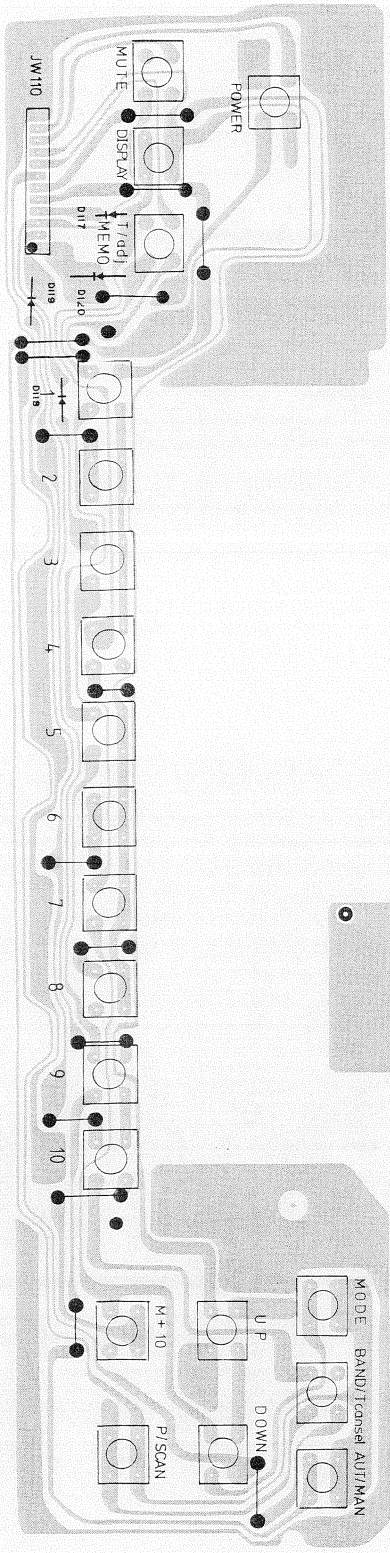
NEW

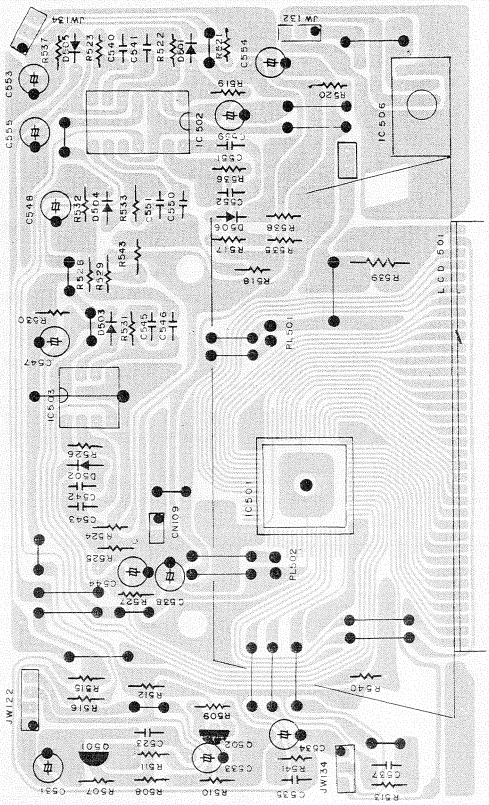
■ PCB TOP VIEW (AMP/POWER)

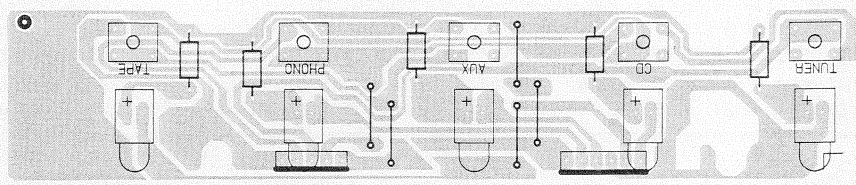


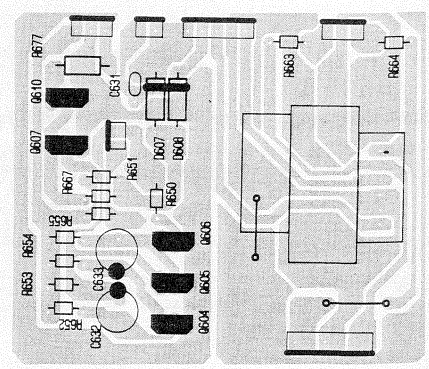


■ PCB TOP VIEW (SPECTRUM/VR/CONTROL)

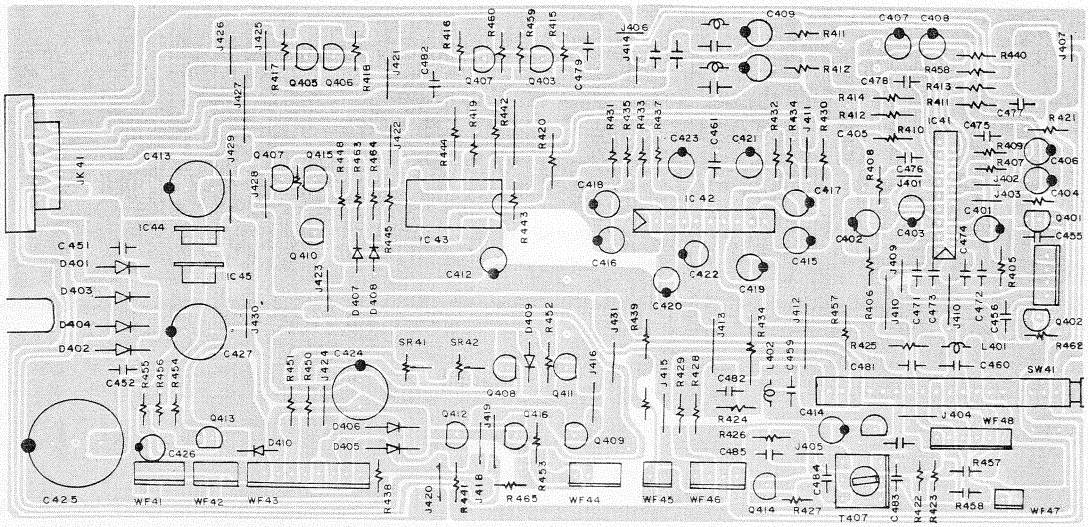


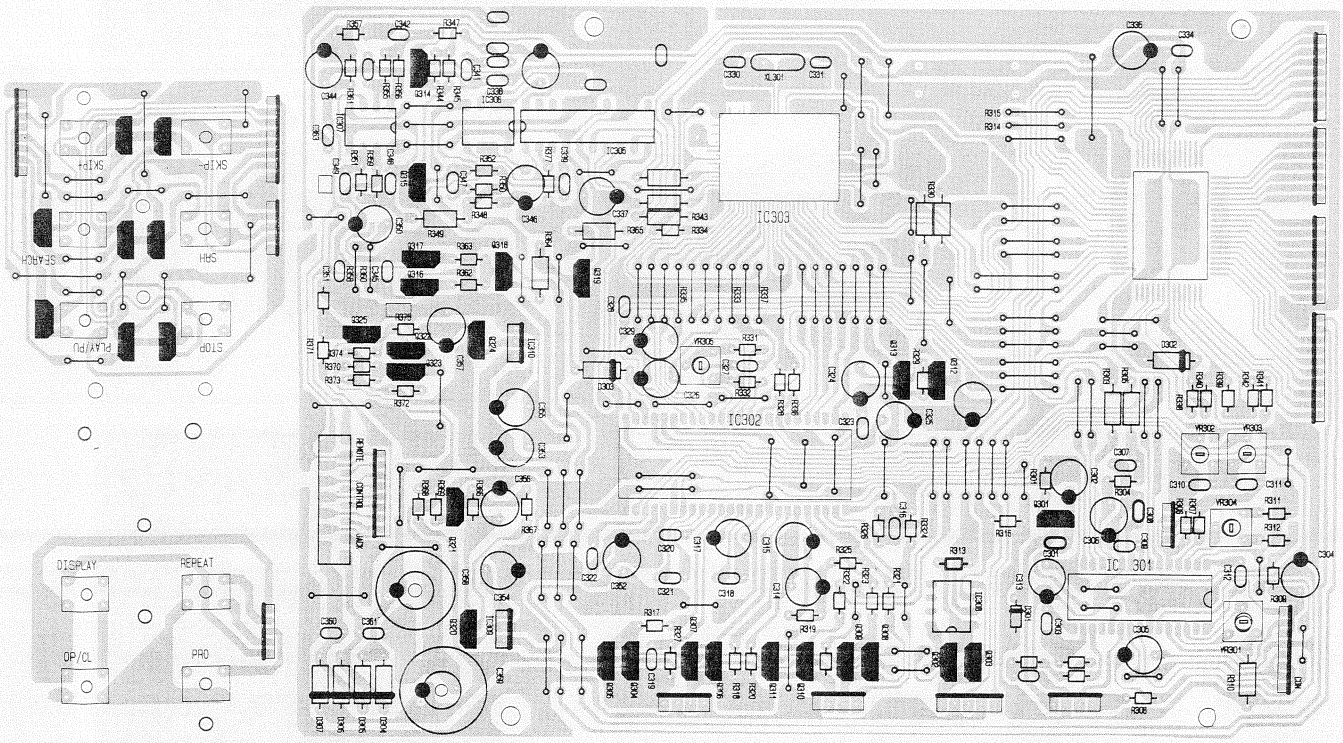




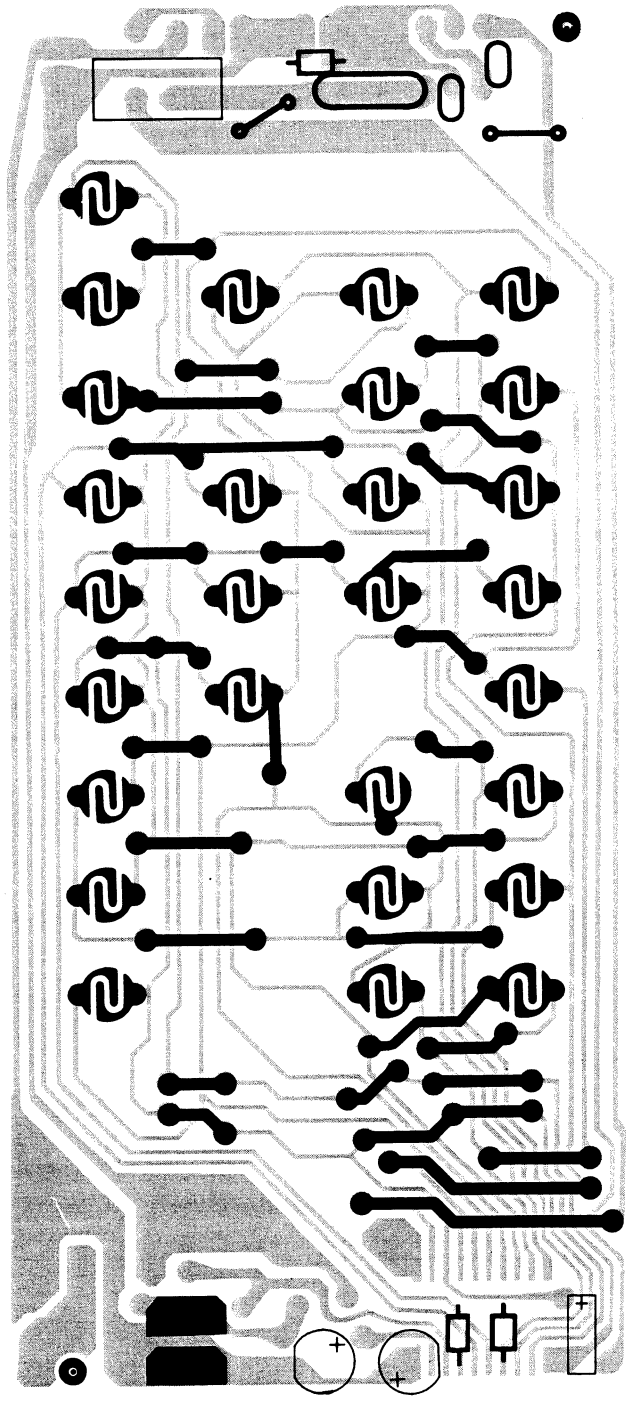


■ PCB TOP VIEW (TAPE/CDP)





■ PCB TOP VIEW (REMOCON)



■ IC BLOCK DIAGRAM

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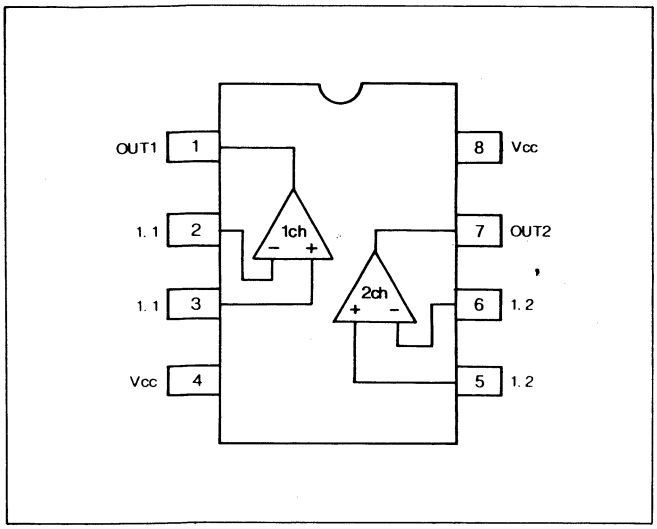

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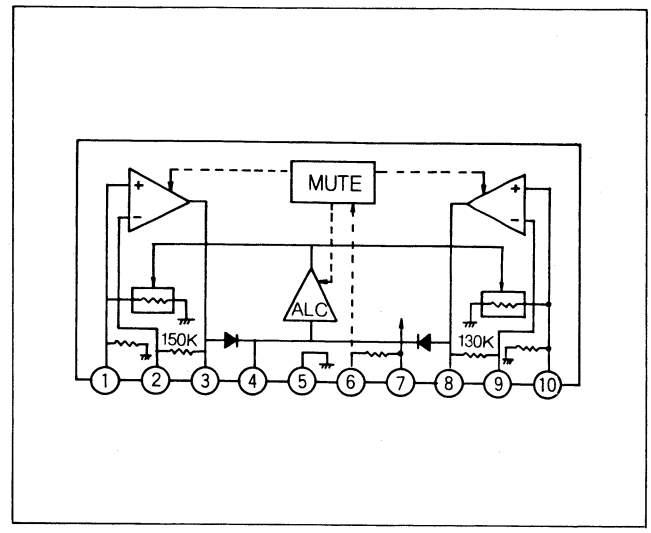

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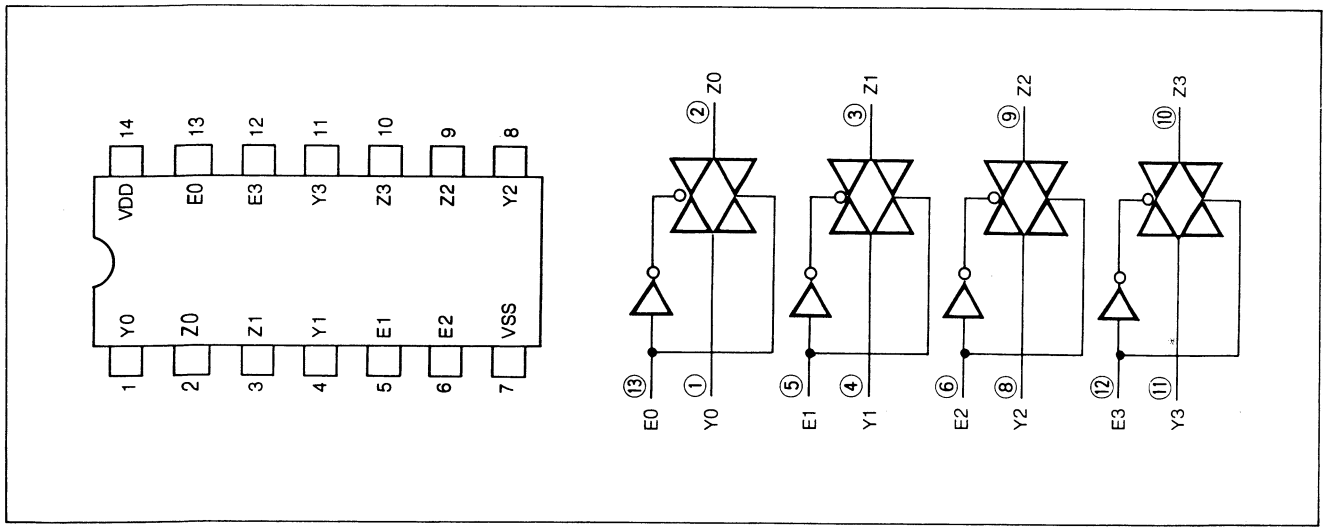

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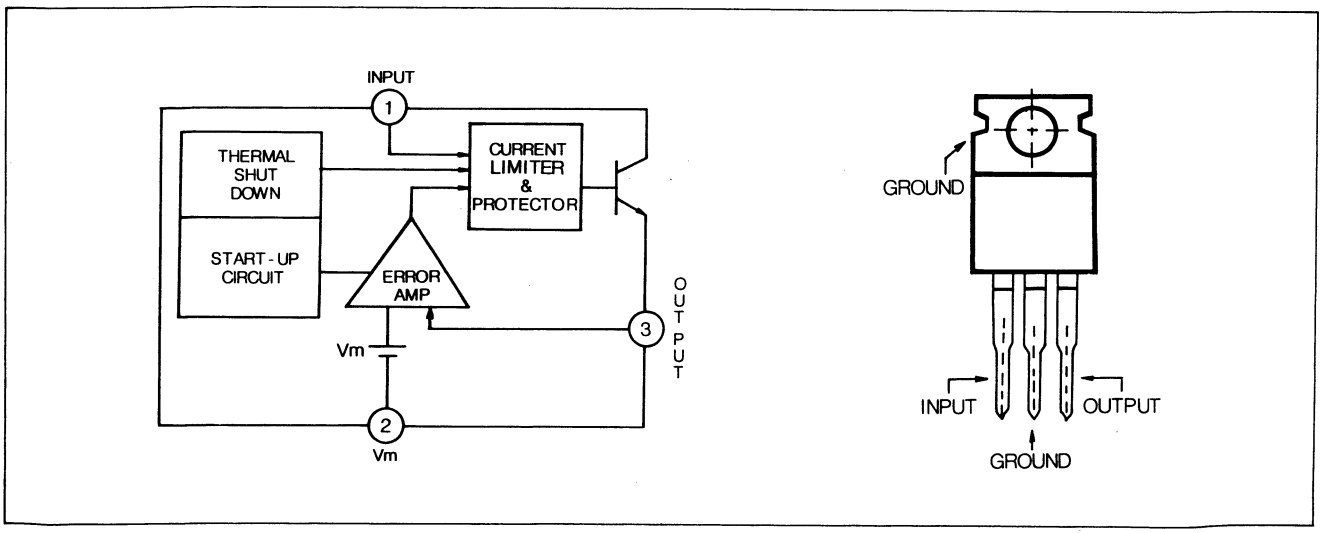

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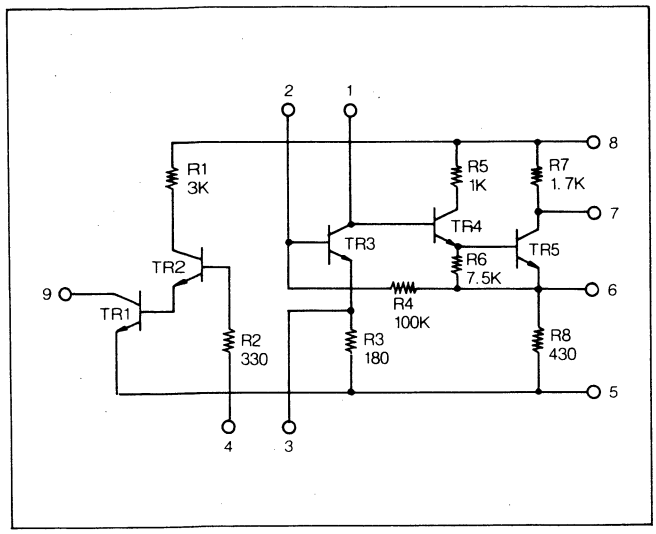

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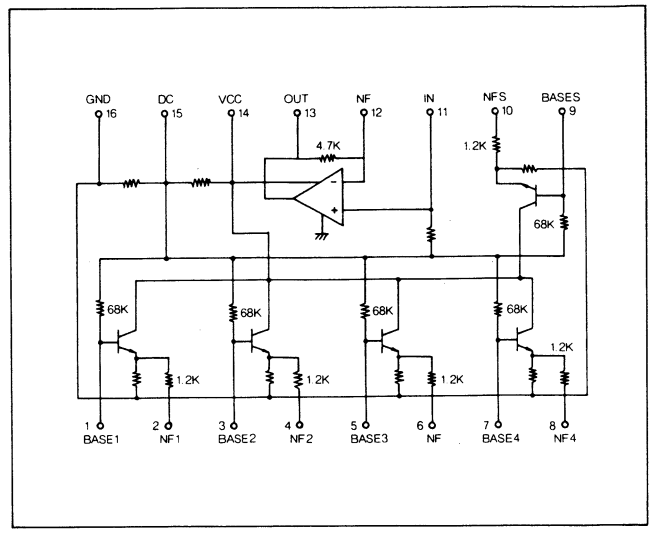

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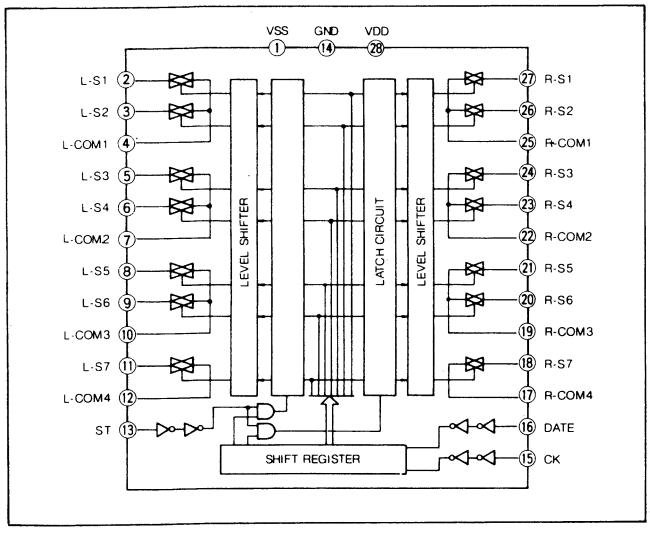

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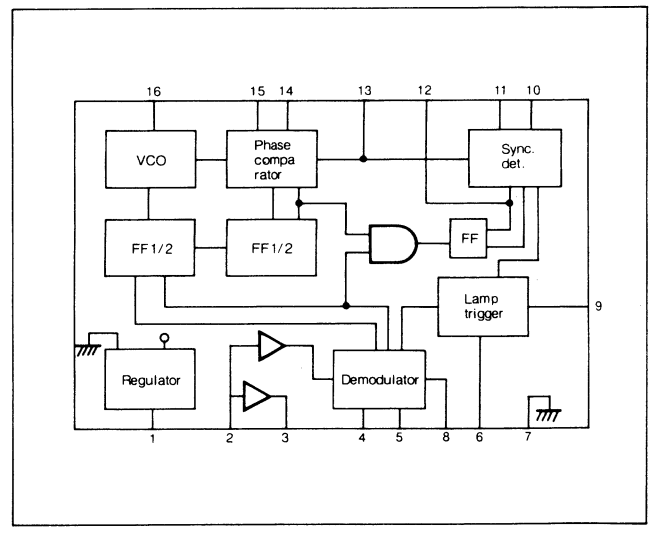

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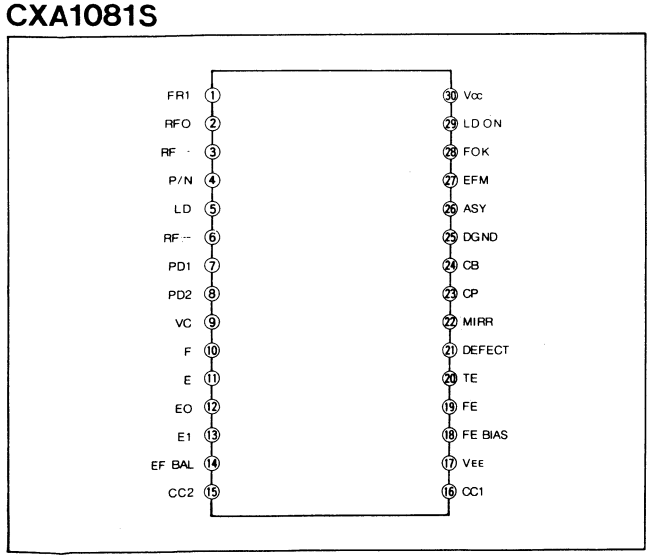

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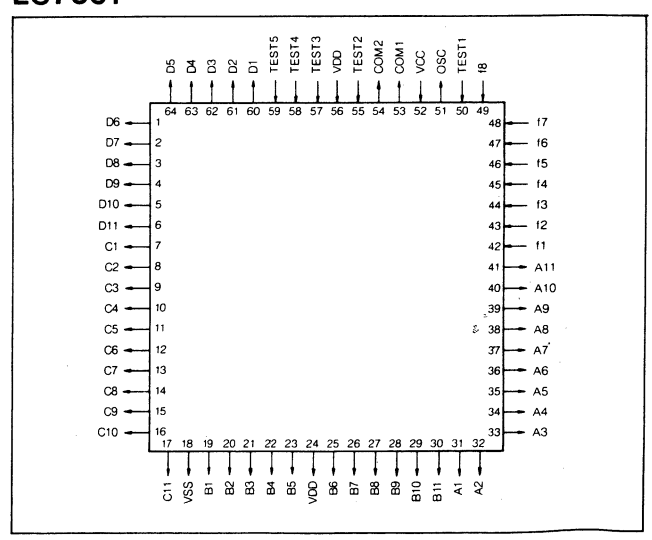

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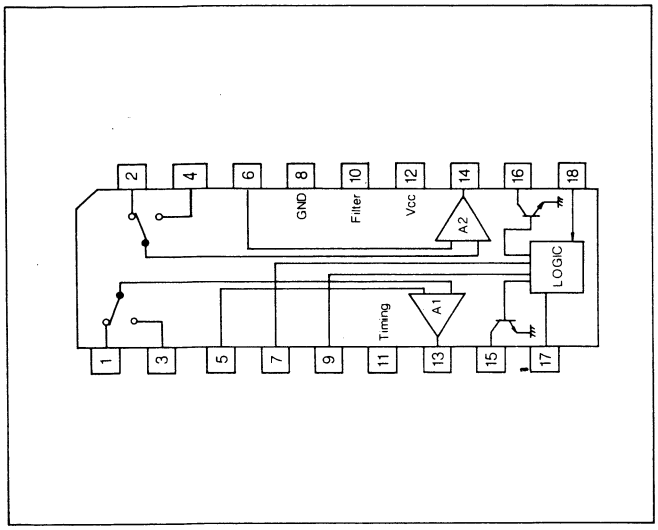

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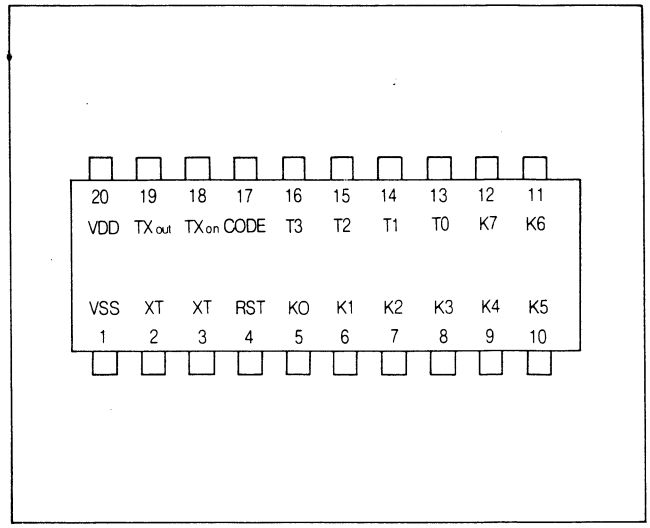

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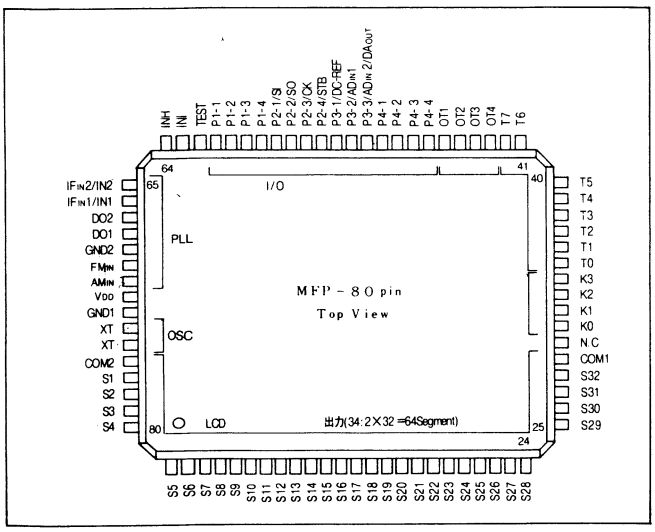

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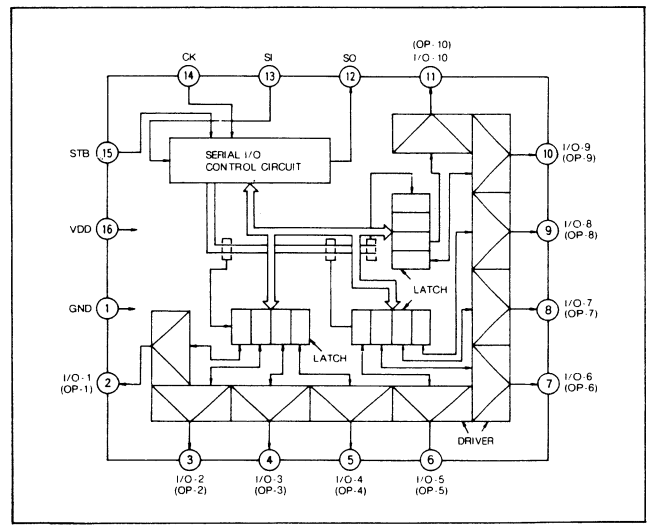

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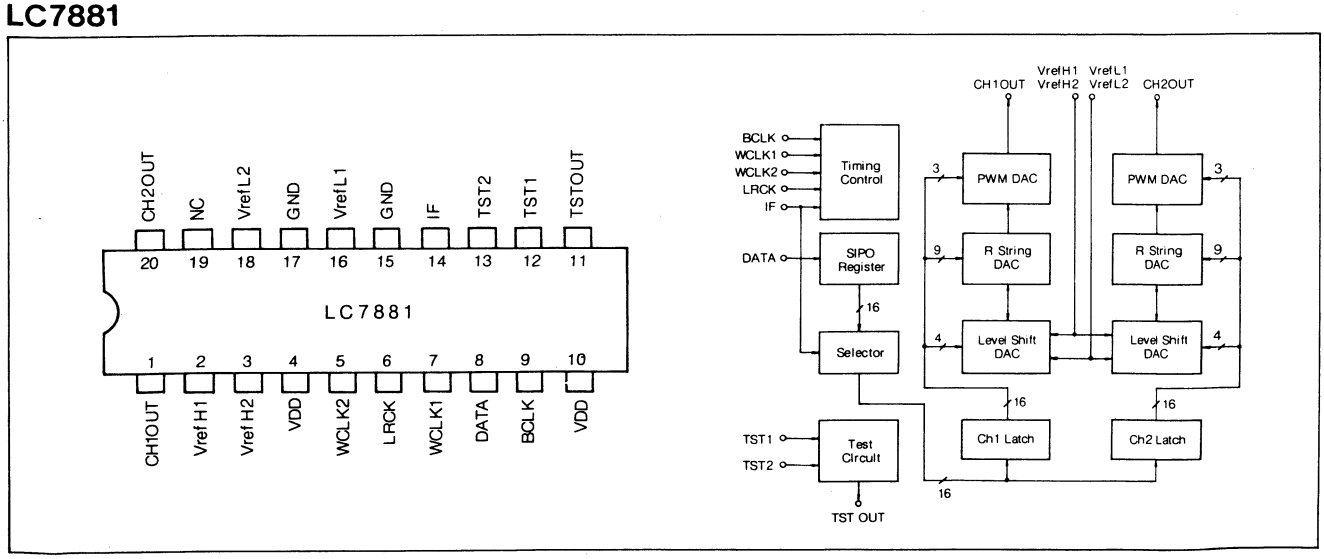

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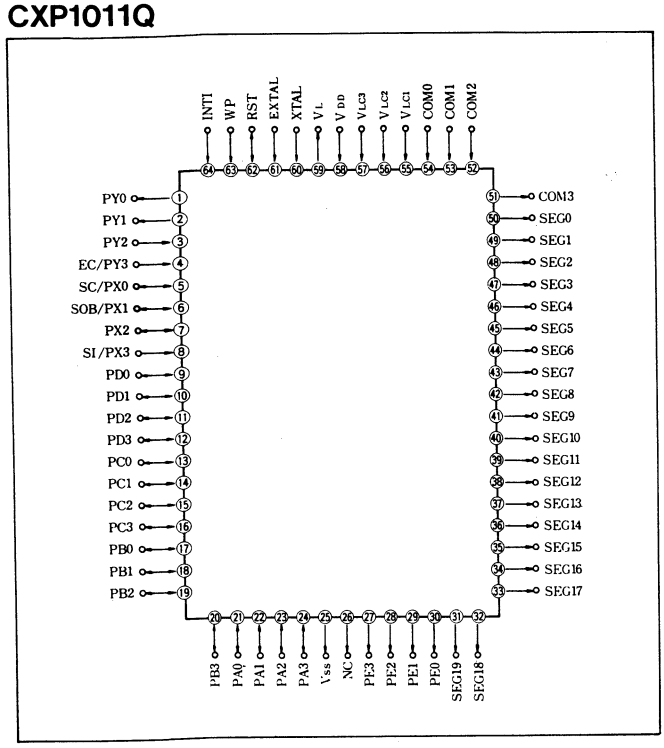

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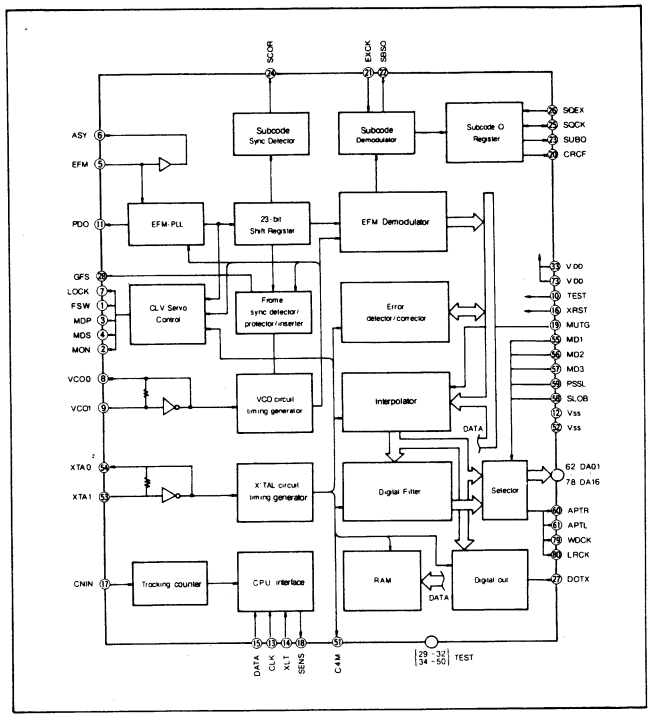

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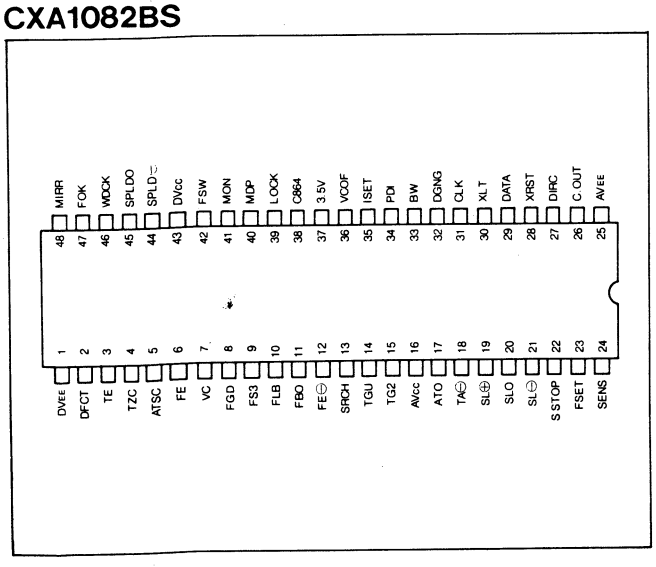

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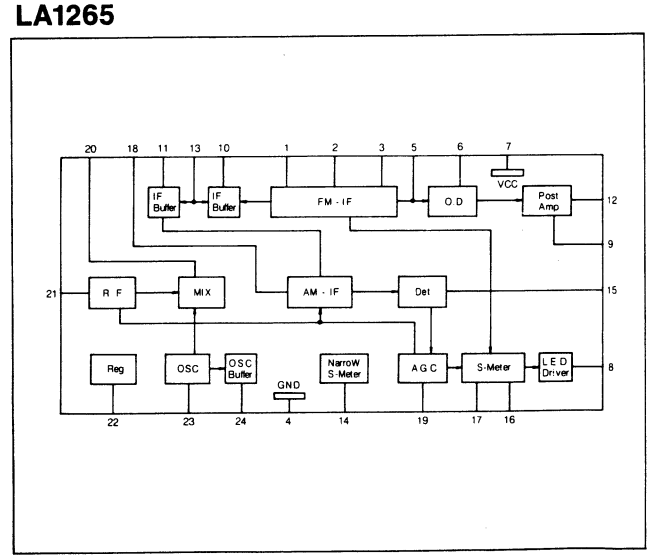
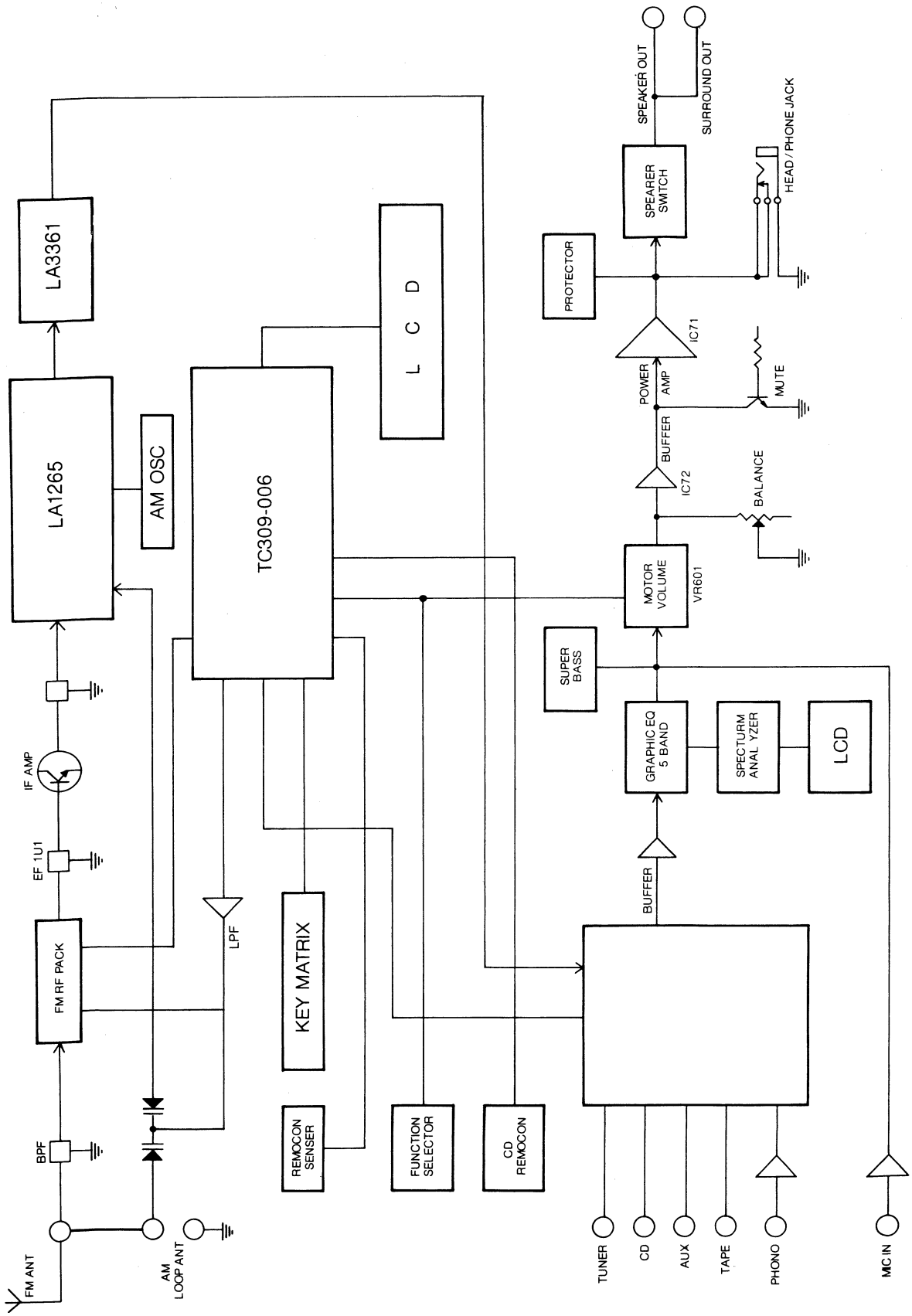
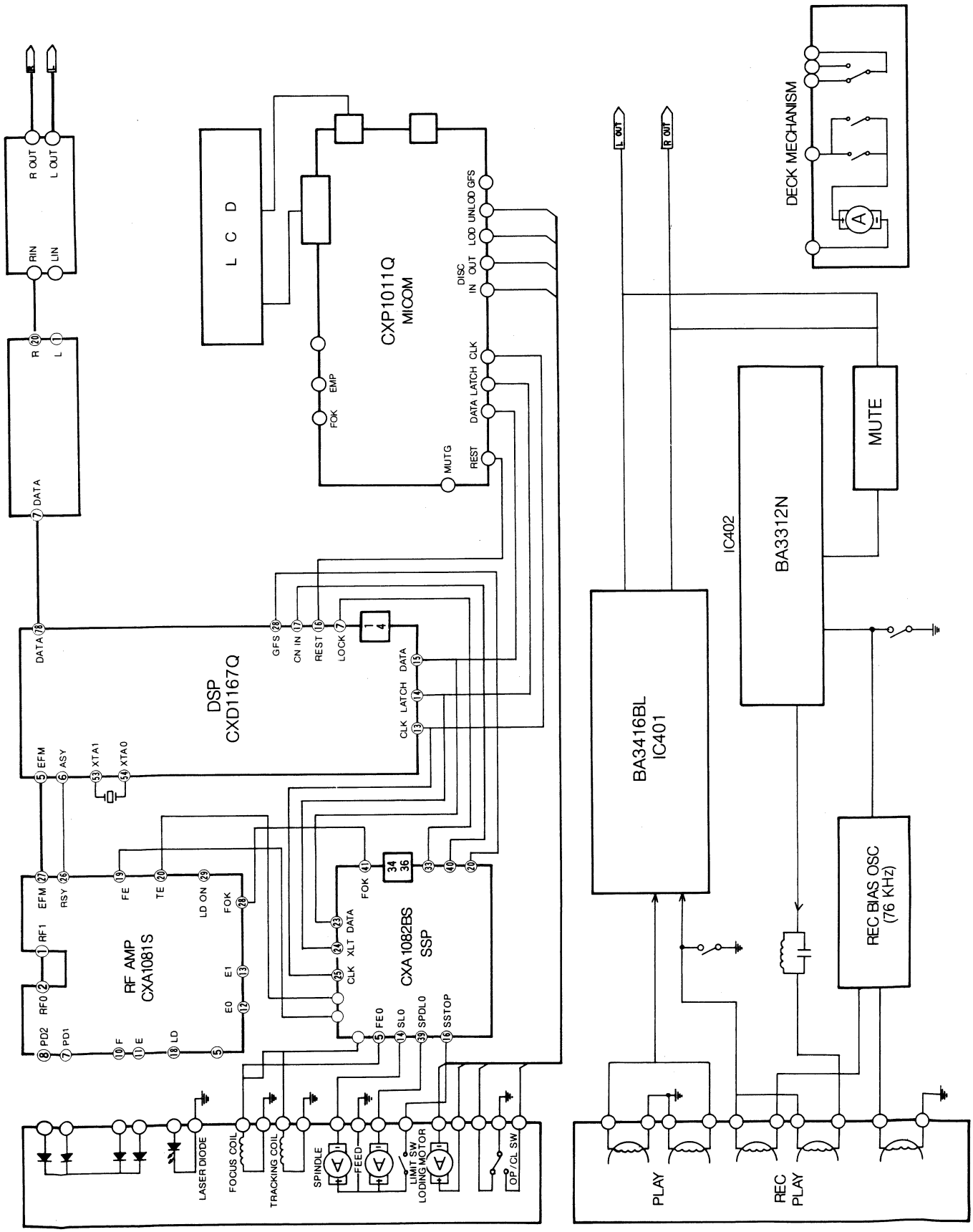


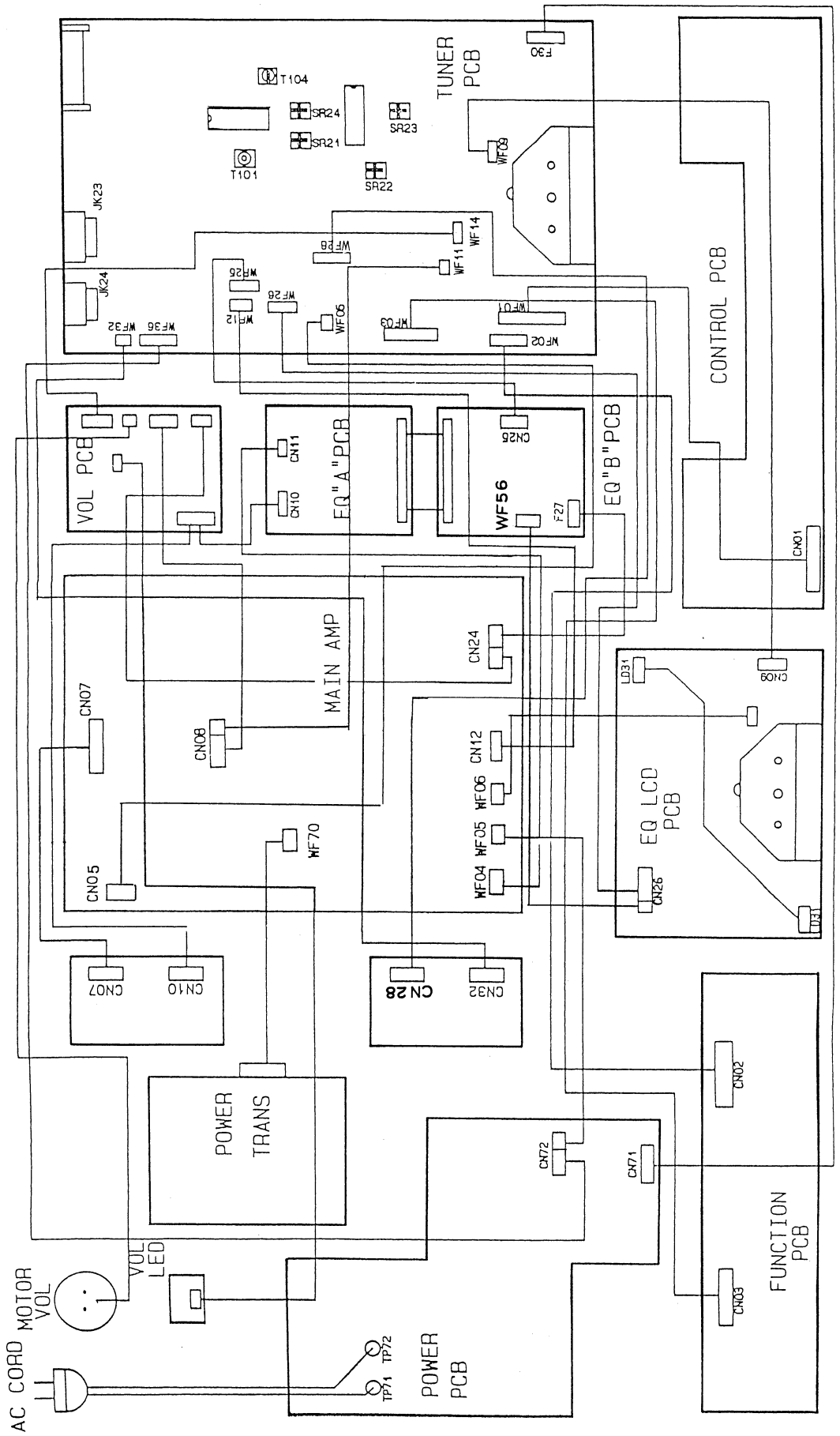
■ BLOCK DIAGRAM (TUNER/AMP)



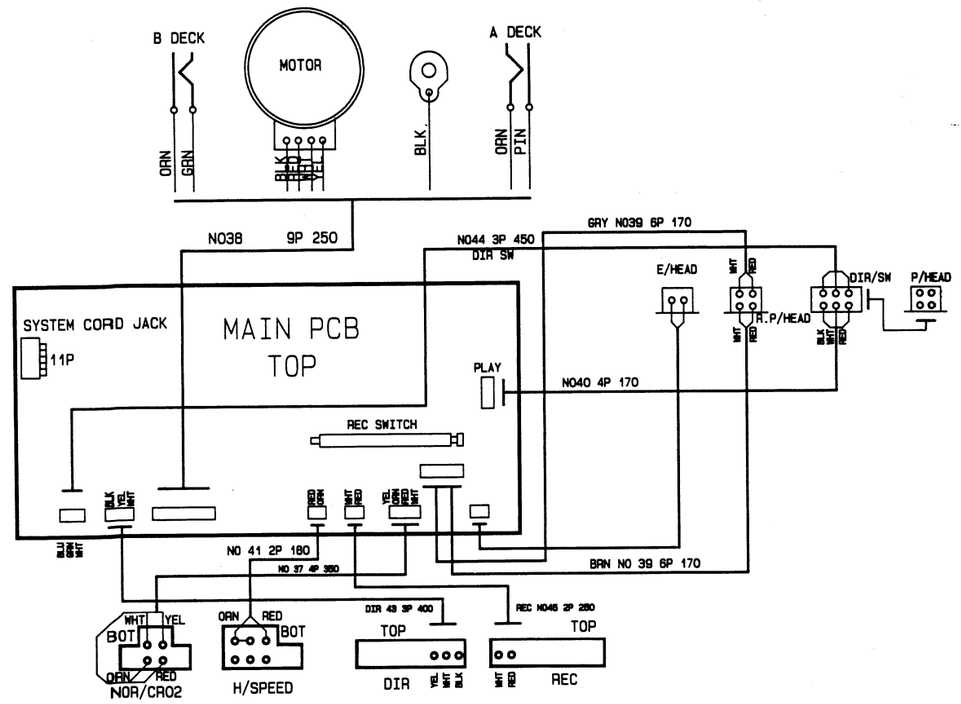
■ BLOCK DIAGRAM (TAPE/CDP)

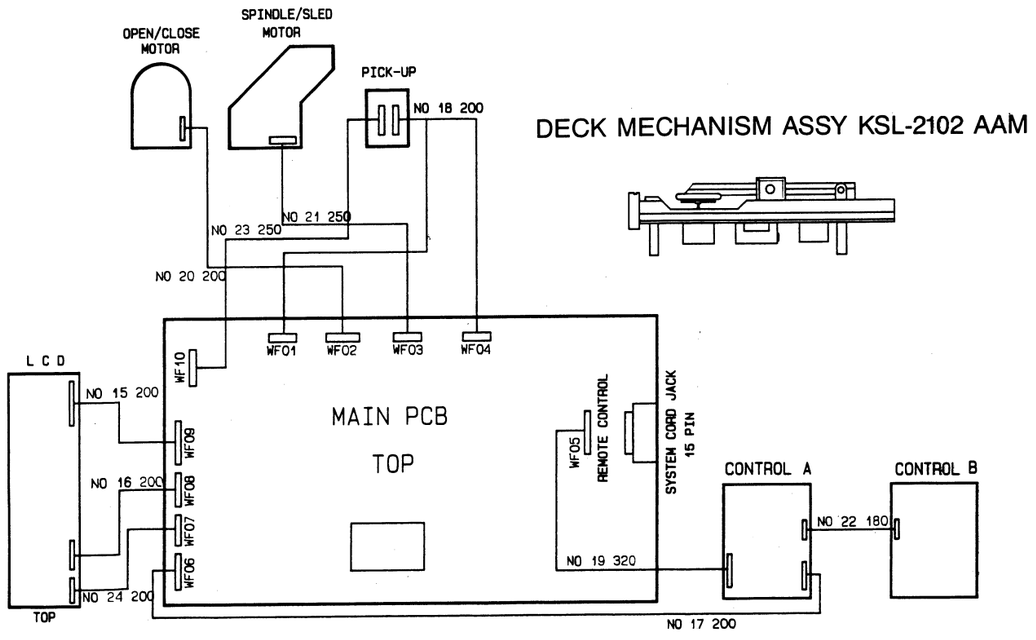


■ WIRING DIAGRAM (TUNER/AMP)



■ WIRING DIAGRAM (TAPE/CDP)





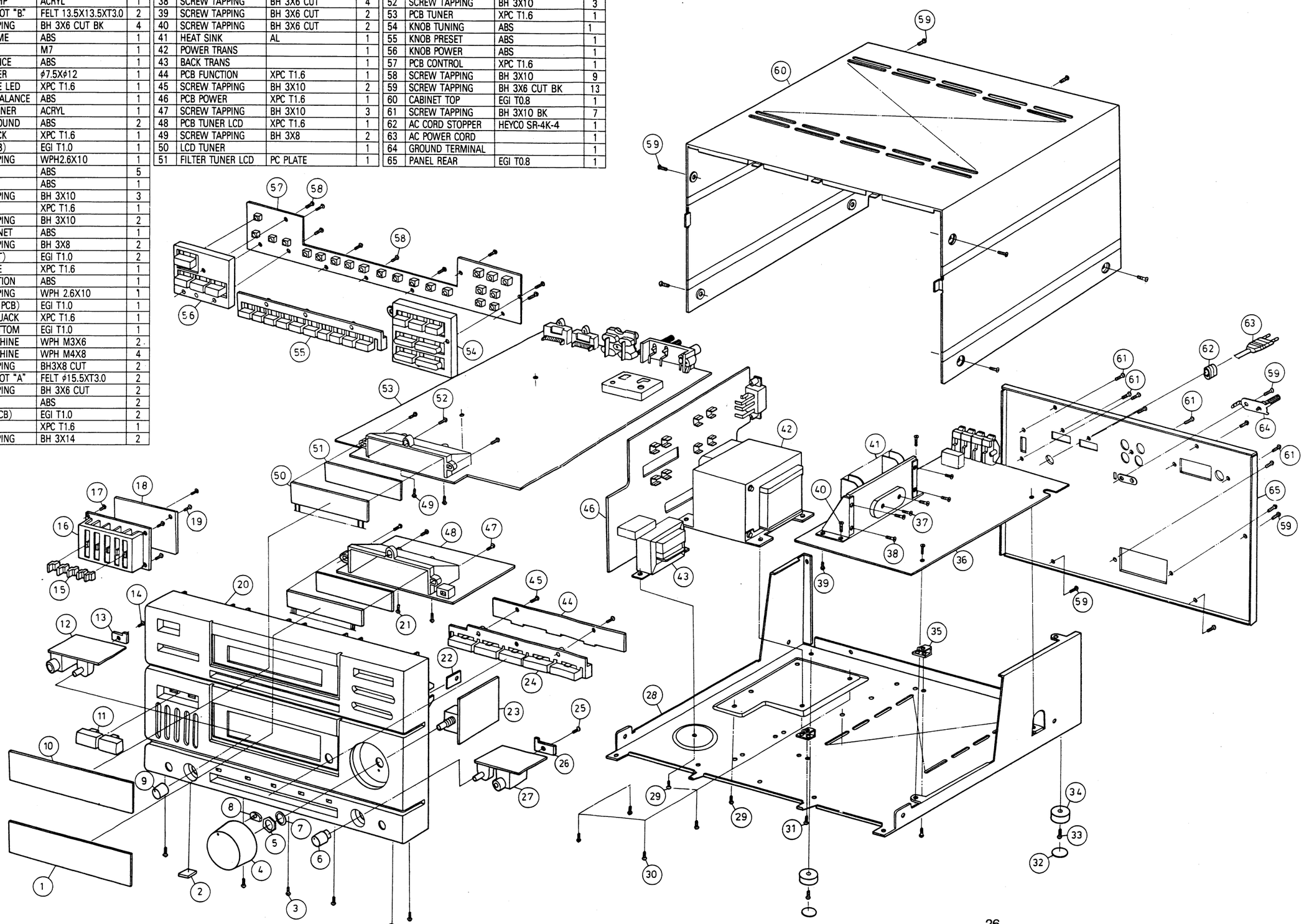
DECK MECHANISM ASSY KSL-2102 AAM

■ EXPLODED VIEW (TUNER/AMP)

NO.	DESCRIPTION	SPECIFICATION	Q'TY
1	WINDOW AMP	ACRYL	1
2	CUSHION FOOT "B"	FELT 13.5X13.5XT3.0	2
3	SCREW TAPPING	BH 3X6 CUT BK	4
4	KNOB VOLUME	ABS	1
5	NUT	M7	1
6	KNOB BALANCE	ABS	1
7	PLAT WASHER	ϕ7.5Xϕ12	1
8	PCB VOLUME LED	XPC T1.6	1
9	KNOB MIC BALANCE	ABS	1
10	WINDOW TUNER	ACRYL	1
11	KNOB SURROUND	ABS	2
12	PCB MIC JACK	XPC T1.6	1
13	BKT(MIC PCB)	EGI T1.0	1
14	SCREW TAPPING	WPH2.6X10	1
15	KNOB EQ	ABS	5
16	COVER EQ	ABS	1
17	SCREW TAPPING	BH 3X10	3
18	PCB EQ	XPC T1.6	1
19	SCREW TAPPING	BH 3X10	2
20	FRONT CABINET	ABS	1
21	SCREW TAPPING	BH 3X8	2
22	BKT(CABINET)	EGI T1.0	2
23	PCB VOLUME	XPC T1.6	1
24	KNOB FUNCTION	ABS	1
25	SCREW TAPPING	WPH 2.6X10	1
26	BKT(PHONE PCB)	EGI T1.0	1
27	PCB PHONE JACK	XPC T1.6	1
28	CABINET BOTTOM	EGI T1.0	1
29	SCREW MACHINE	WPH M3X6	2
30	SCREW MACHINE	WPH M4X8	4
31	SCREW TAPPING	BH3X8 CUT	2
32	CUSHION FOOT "A"	FELT ϕ15.5XT3.0	2
33	SCREW TAPPING	BH 3X6 CUT	2
34	FOOT	ABS	2
35	BKT(MAIN PCB)	EGI T1.0	2
36	PCB MAIN	XPC T1.6	1
37	SCREW TAPPING	BH 3X14	2

NO.	DESCRIPTION	SPECIFICATION	Q'TY
38	SCREW TAPPING	BH 3X6 CUT	4
39	SCREW TAPPING	BH 3X6 CUT	2
40	SCREW TAPPING	BH 3X6 CUT	2
41	HEAT SINK	AL	1
42	POWER TRANS		1
43	BACK TRANS		1
44	PCB FUNCTION	XPC T1.6	1
45	SCREW TAPPING	BH 3X10	2
46	PCB POWER	XPC T1.6	1
47	SCREW TAPPING	BH 3X10	3
48	PCB TUNER LCD	XPC T1.6	1
49	SCREW TAPPING	BH 3X8	2
50	LCD TUNER		1
51	FILTER TUNER LCD	PC PLATE	1

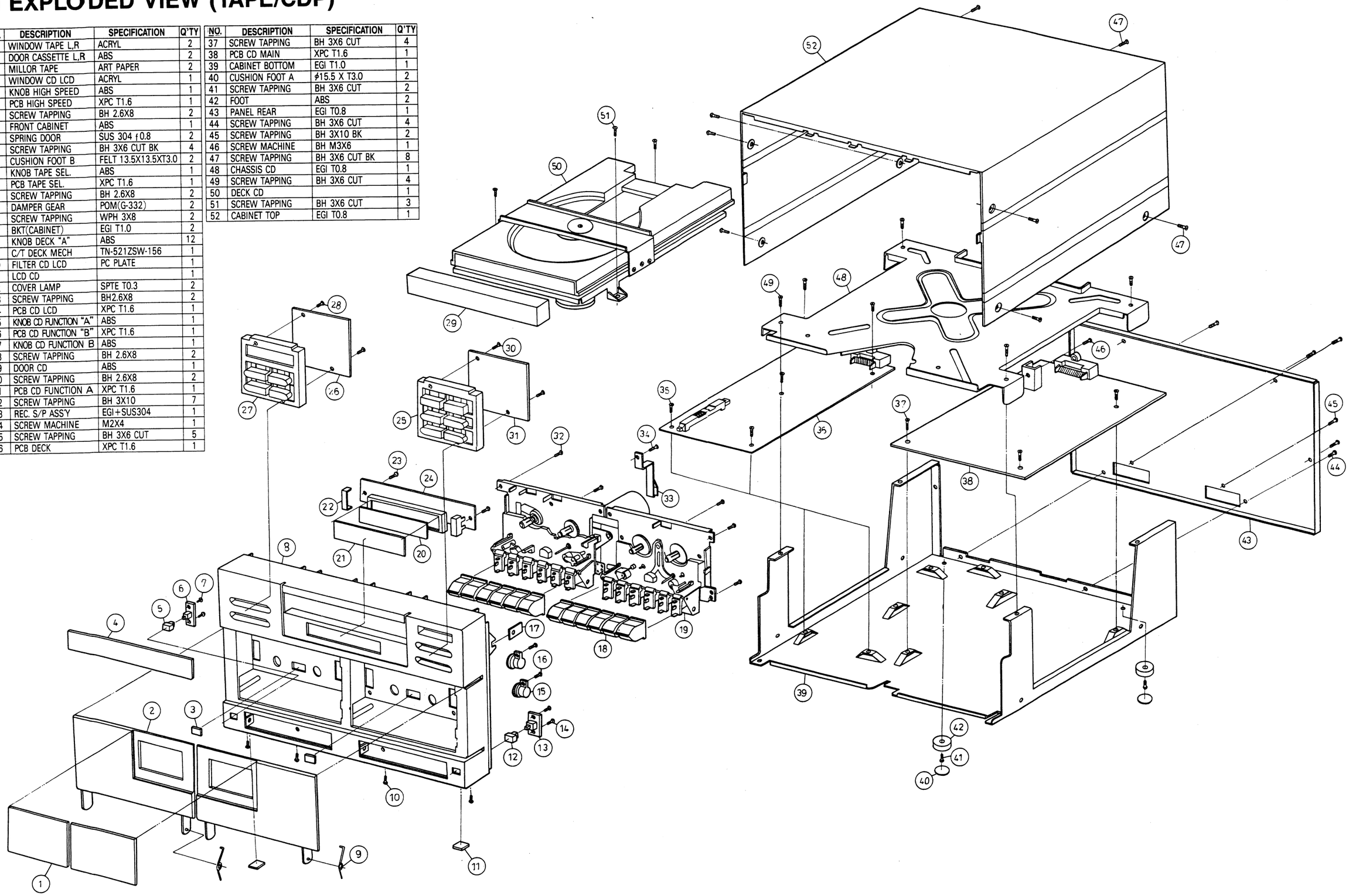
NO.	DESCRIPTION	SPECIFICATION	Q'TY
52	SCREW TAPPING	BH 3X10	3
53	PCB TUNER	XPC T1.6	1
54	KNOB TUNING	ABS	1
55	KNOB PRESET	ABS	1
56	KNOB POWER	ABS	1
57	PCB CONTROL	XPC T1.6	1
58	SCREW TAPPING	BH 3X10	9
59	SCREW TAPPING	BH 3X6 CUT BK	13
60	CABINET TOP	EGI T0.8	1
61	SCREW TAPPING	BH 3X10 BK	7
62	AC CORD STOPPER	HEYCO SR-4K-4	1
63	AC POWER CORD		1
64	GROUND TERMINAL		1
65	PANEL REAR	EGI T0.8	1



■ EXPLODED VIEW (TAPE/CDP)

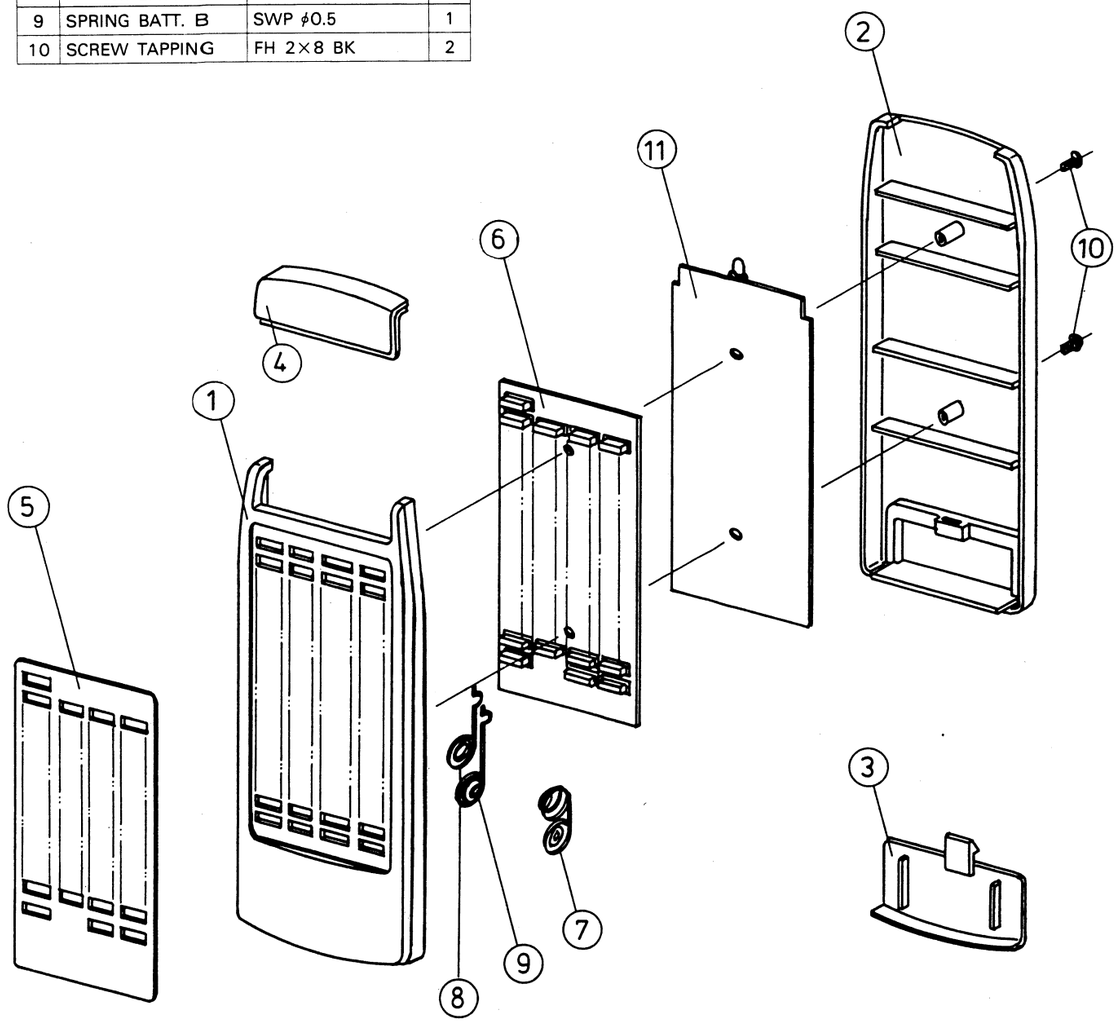
NO.	DESCRIPTION	SPECIFICATION	Q'TY
1	WINDOW TAPE L,R	ACRYL	2
2	DOOR CASSETTE L,R	ABS	2
3	MILLOR TAPE	ART PAPER	2
4	WINDOW CD LCD	ACRYL	1
5	KNOB HIGH SPEED	ABS	1
6	PCB HIGH SPEED	XPC T1.6	1
7	SCREW TAPPING	BH 2.6X8	2
8	FRONT CABINET	ABS	1
9	SPRING DOOR	SUS 304 f0.8	2
10	SCREW TAPPING	BH 3X6 CUT BK	4
11	CUSHION FOOT B	FELT 13.5X13.5XT3.0	2
12	KNOB TAPE SEL.	ABS	1
13	PCB TAPE SEL.	XPC T1.6	1
14	SCREW TAPPING	BH 2.6X8	2
15	DAMPER GEAR	POM(G-332)	2
16	SCREW TAPPING	WPH 3X8	2
17	BKT(CABINET)	EGI T1.0	2
18	KNOB DECK "A"	ABS	12
19	C/T DECK MECH	TN-521ZSW-156	1
20	FILTER CD LCD	PC PLATE	1
21	LCD CD		1
22	COVER LAMP	SPTE T0.3	2
23	SCREW TAPPING	BH2.6X8	2
24	PCB CD LCD	XPC T1.6	1
25	KNOB CD FUNCTION "A"	ABS	1
26	PCB CD FUNCTION "B"	XPC T1.6	1
27	KNOB CD FUNCTION B	ABS	1
28	SCREW TAPPING	BH 2.6X8	2
29	DOOR CD	ABS	1
30	SCREW TAPPING	BH 2.6X8	2
31	PCB CD FUNCTION A	XPC T1.6	1
32	SCREW TAPPING	BH 3X10	7
33	REC. S/P ASS'Y	EGI+SUS304	1
34	SCREW MACHINE	M2X4	1
35	SCREW TAPPING	BH 3X6 CUT	5
36	PCB DECK	XPC T1.6	1

NO.	DESCRIPTION	SPECIFICATION	Q'TY
37	SCREW TAPPING	BH 3X6 CUT	4
38	PCB CD MAIN	XPC T1.6	1
39	CABINET BOTTOM	EGI T1.0	1
40	CUSHION FOOT A	f15.5 X T3.0	2
41	SCREW TAPPING	BH 3X6 CUT	2
42	FOOT	ABS	2
43	PANEL REAR	EGI T0.8	1
44	SCREW TAPPING	BH 3X6 CUT	4
45	SCREW TAPPING	BH 3X10 BK	2
46	SCREW MACHINE	BH M3X6	1
47	SCREW TAPPING	BH 3X6 CUT BK	8
48	CHASSIS CD	EGI T0.8	1
49	SCREW TAPPING	BH 3X6 CUT	4
50	DECK CD		1
51	SCREW TAPPING	BH 3X6 CUT	3
52	CABINET TOP	EGI T0.8	1



■ EXPLODED VIEW (REMOCON)

NO.	DESCRIPTION	SPECIFICATION	Q'TY
1	CABINET TOP	ABS	1
2	CABINET BOTTOM	ABS	1
3	COVER BATTERY	ABS	1
4	WINDOW LED	ACRYL	1
5	PLATE FUNCTION	PC T0.5	1
6	RUBBER CONTACT	SILICON RUBBER	1
7	SPRING BATT. A	SUS 304 ϕ0.5	1
8	SPRING BATT. C	SWP ϕ0.5	1
9	SPRING BATT. B	SWP ϕ0.5	1
10	SCREW TAPPING	FH 2×8 BK	2



■ TUNER, AMP PART'S LIST

• MECHANICAL PARTS LIST

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
CABINET FRONT	HIPS SPRAY SILK (ATU—66)	1	
WINDOW TUNER	ACRYL SILK (3×30.8×139.8)	1	
WINDOW AMP	ACRYL SILK (3×35.8×139.8)	1	
KNOB PRE SET	ABS. SPRAY, SILK (M1—10)	1	
KNOB POWER	ABS. SPRAY, SILK (M1—10)	1	
KNOB TUNING	ABS. SPRAY, SILK (◄ DOWN/UP ►)	1	
KNOB SURROUND	ABS. SPRAY (SURROUND.S—BASS)	2	
KNOB EQ	ABS. SPRAY, INKING SLIDE EQ	5	
KNOB VOLUME	ABS. SPRAY, (ϕ40 MAIN)	1	
KNOB BALANCE	ABS. SPRAY, INKING (ϕ11.)	1	
KNOB MIC BALANCE	ABS. SPRAY, INKING (ϕ11)	1	
KNOB FUNCTION	ABS. SPRAY, SILK (TUNER-TAPE)	1	
HOUSING TUNER LCD	ABS. 94×27.5 (WHITE)	1	
HOUSING AMP LCD	ABS. 94×37.5 (WHITE)	1	
COVER EQ.	ABS. SPRAY	1	
FOOT	ABS 5.5T × ϕ20 (BLACK)	2	
CABINET TOP	EGI 0.8T (BLACK SPRAY)	1	
CABINET BOTTON	EGI 1.0T	1	
PANEL REAR	EGI 0.8T BLACK SPRAY SILK 253×174.1	1	
BKT (CABINET)	SECC 12.5×15×t1.0	2	
BKT (MIC PCB)	SECC 1.0T BANDING (POSITIVE)	1	
BKT (PHONE PCB)	SECC 1.0T BANDING (NEGATIVE)	1	
BKT (HEAT SINK)	SECC 1.0T BANDING (POSITIVE)	1	
HEAT SINK	133×65×t8.0 (AL) BLACK COATING	1	
AC CORD STOPPER	HEYCO SR–4K–4	1	
FILTER AMP LCD	P.C 0.5T×34.5×91 (EMBO SILK)	1	
FILTER TUNER LCD	P.C 0.5T×22.5×91 (EMBO SILK)	1	
CUSHION FOOT A	ϕ15.5×3T, FELT (BLACK)	2	
CUSHION FOT B	□ 13.5×3T, FELT (BLACK)	2	
HIMELON TAPE	120×20×t.10	1	
CARTON BOX	DW–2	2	
SNOW BOX TOP	EPS (340×323)	1	
SNOW BOX BOTTOM	EPS (340×323)	1	
POLY BAG	LDPE 0.05T (500×600ℓ)	1	SET
POLY BAG	LDPE 0.05T (250×400ℓ)	1	MANUAL
POLY BAG	LDPE 0.05T (90×250ℓ)	1	ACCESSORY
SCREW MACHINE	WPH M4×8 ZN (WHITE)	4	BOTTOM + M. TRANS(4)
SCREW MACHINE	WPH M3×6 ZN (WHITE)	2	BOTTOM + B. TRANS(2)
SCREW TAPPING	BH 3×8 ZN (WHITE)	4	HOUSING TUNER + PCB(2)
			HOUSING AMP + PCB(2)
SCREW TAPPING	BH 3×6 CUT ZU (WHITE)	14	BOTTOM + AMP PCB(2)
			BOTTOM + FOOT(2)
			BOTTOM + AMP PCB(6) HEAT+
			SINK BKT(4)
SCREW TAPPING	BH 3×6 CUT BK	18	BOTTOM + FRONT(5)
MASTER CARTON BOX	DW-2 (W697×D440×H520)	1	

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
SNOW PAD (SET)	EPS (W690 x D254 x T97)	1	
SNOW PAD (S/P)	EPS (W432 x D240 x T76)	1	
SCREW TAPPING	BH 3x6 CUT BK	18	BOTTOM + REAR(4) REAR + GRD TERMINAL BOTTOM + TOP PANEL (6) REAR + TOP PANEL (2)
SCREW TAPPING	BH 3 x 10 ZN (WHITE)	22	FRONT + CONTROL PCB(9) FRONT + EQ PCB(5) FRONT + FUNCTION PCB(2) FRONT + HOUSING TUNER(3) FRONT + FUNCTION AMP(3)
SCREW TAPPING	BH 3 x 10 BK	9	REAR + TUNER PCB JACK(5) REAR + VOL. S/W(2) REAR + S/P JACK(2)
SCREW TAPPING	WPH 2.6 x 10 ZN (WHITE)	2	FRONT + JACK PCB(2)
SCREW TAPPING	BH 3 x 14 ZN (WHITE)	2	HEAT SINK + IC(2)
INSTRUCTION MANUAL	PAPER	1	
SERIAL NO. LABEL	PAPER	4	AMP(1), DECK(1), CARTON BOX(2)

• ELECTRICAL PARTS LIST

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
IC	LA-1265	1	IC21
IC	LA-3361	1	IC22
IC	GL-4558	2	IC23, 24
IC	TC-9164	1	IC25
IC	IC9309F 006	1	IC27
IC	TC-9173	1	IC28
IC	LA-9174	1	IC29
IC	LA-3210	1	IC26
IC	GL-7812	2	IC11, 12
TRANSISTER	2SD-400F	1	Q212
TRANSISTER	2SC-930F	1	Q201
TRANSISTER	2SA-1346F	8	Q203, 204, 206, 208, 210, 217, 183, 184
TRANSISTER	2SC-536F	9	Q205, 187, 209, 218, 213, 214, 215, 216, 219
TRANSISTER	2SC-3400F	4	Q207, 211, 186, 185
DIODE	SVC-321	2	D203, 204
DIODE	0.5W 6:2W	2	D209, 210
DIODE	AM 151	1	D208
DIODE	IN4148	32	D201, 202, 205, 206, 207, 212, 213 214, 215, 216, 217, 218, 219, 220, 221 222, 223, 224, 226, 227, 228, 229 230, 231, 237, 239 181, 182, 183, 184, 185, 186
CERAMIC FILTER	SFE10. 7MS3A	2	CF21, 22
CERAMIC FILTER	ACHFM2-450AL	1	CF23
BAND PASS FILTER	PFW B4	1	BPF1

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
PIN JACK BOARD	JK 0400911N	1	JK22
IFT	DOLBY FILTER (10DF)	2	DT01, 02
IFT	FTZ FILTER (10FF)	1	FT01
CERAMIC FILTER	BFU-450CN	1	CF24
CRYSTAL	7.2MHz	1	X101
TRANSISTER	2SC-3899	2	C181, 182
WRAPPING PIN	1ϕ x 10mm	8	TP11, 12, 13, 14, 15, 16, 17, 18
IFT	FM D(10FD)	1	T101
IFT	AM ANT (10NAT)	1	T102
IFT	AM OSC(10AD)	1	T103
IFT	AM MIX(10AA)	1	T104
COIL	60 μH	9	LF02, 03, 04, 05, 06, 07, 08, 09,10
COIL	390 μH	1	LF01
SEMI VR	EVND8AA03B14(103)	2	SR23, 21, 24
SEMI VR	EVND8AA03B13(102)	1	SR22
SCREW TERMINAL BOARD	SCO21058KN	1	JK21
SCREW TERMINAL BOARD	S4011062	1	JK26
FM TUNER	FE415 G11	1	
LCD	CG739-TINC(A)	1	LCD 2
LAMP	12V 80mA	2	PL21,22
TRIMMER CAPACITOR	10PF	2	TC21, 22
ELECTRICAL CAPACITOR	0.47μF/50V 5 x 11	5	C203, 206, 212, 213, 230
ELECTRICAL CAPACITOR	1μF/50V 5 x 11	1	C214
ELECTRICAL CAPACITOR	2.2μF/50V 5 x 11	14	C209, 210, 215, 216, 217, 218, 225, 227, 229, 231, 232, 134, 135, 239
ELECTRICAL CAPACITOR	4.7μF/50V 5 x 11	2	C207, 240
ELECTRICAL CAPACITOR	10μF/16 5 x 11	2	C205, 208
ELECTRICAL CAPACITOR	47μF/16	4	C201, 295, 296, 184
ELECTRICAL CAPACITOR	100μF/16 6.3 x 11	7	C219, 220, 221, 222, 223, 224, 228, 236
ELECTRICAL CAPACITOR	220μF/16 8 x 11.5	3	C202,211, 234
ELECTRICAL CAPACITOR	470μF/16 10 x 12.5	2	C235, 238
SUPER CAPACITOR	0.1μF/5.5V	1	C233
ELECTRICAL CAPACITOR	2200μF/25 16 x 25	1	C237
ELECTRICAL CAPACITOR	33μF/16V 5 x 11	1	C133
STYROL CAPACITOR	470PF 50V J	1	C140
STYROL CAPACITOR	1000PF 50V J	1	C137
AXIAL LEAD CERAMIC C J	50V UP050CH 30PF	2	C105, 106
AXIAL LEAD CERAMIC C J	50V UP050SL 33PF	2	C273, 274
AXIAL LEAD CERAMIC C K	50V UP050B 100PF	4	C282, 274, CF01, 02
AXIAL LEAD CERAMIC C K	50V UP050B 220PF	1	C269
AXIAL LEAD CERAMIC C K	50V UP050B 680PF	1	C270
AXIAL LEAD CERAMIC C K	50V UP050B 0.001μF	1	C261
AXIAL LEAD CERAMIC C M	16V EP050 Y0.01μF	3	C255, 259, 281
AXIAL LEAD CERAMIC C Z	25V TP050F 0.022μF	19	C251, 252, 254, 260, 263, 265, 266, 267, 271, 268, 141, 131, 132, 280, 137, 181, 185, 182, 183
CERAMIC C DISK	0.047μF 50V FZ	3	C257, 262, 264
CERAMIC C DISK	0.022μF 50V FZ	2	C276, 277
CERAMIC C DISK	0.1μF 50V F2	1	CF11
MYLAR CAPACITOR	100V K 0.001μF	2	C289, 290

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
MYLAR CAPACITOR	100V K 0.0068μF	2	C291, 292
MYLAR CAPACITOR	100V K 0.022μF	4	C293, 294, 111, 297
MYLAR CAPACITOR	100V K 0.047μF	2	C299, 112
MYLAR CAPACITOR	100V K 0.0018μF	2	C287, 288
MYLAR CAPACITOR	100V K 0.0022μF	2	CF05, 06
MYLAR CAPACITOR	100V K0.012μF	2	C285, 286
WAFER	G/S 2.5mm S 2P	3	WF32, 05, 11
WAFER	G/S 2.5mm S 3P	4	WF12, 14, 09, 26
WAFER	G/S 2.5mm S 4P	1	WF 25
WAFER	G/S 2.5mm S 5P	3	WF36, 02, 30
WAFER	G/S 2.5mm S 6P	1	WF03, 28
WAFER	G/S 2.5mm S 11P	1	WF01
SMK JACK	11 PIN	1	JK24
SMK JACK	15 PIN	1	JK25
CARBON FILM RESISTOR	1/8W J TAP 47 ohm	3	R204, 205, 209
CARBON FILM RESISTOR	1/8W J TAP 330 ohm	5	R203, 207, 286, 287, 114
CARBON FILM RESISTOR	1/8W J TAP 560 ohm	1	R208
CARBON FILM RESISTOR	1/8W J TAP 3.3K ohm	10	R206,115, 230, 231, 182, 181, 215, 116, 209, 109
CARBON FILM RESISTOR	1/8W J TAP 4.7K ohm	6	R210, 211, 293, 120, 121, 213
CARBON FILM RESISTOR	1/8W J TAP 100 ohm	3	R220, 226, 240
CARBON FILM RESISTOR	1/8W J TAP 82 ohm	1	R222
CARBON FILM RESISTOR	1/8W J TAP 22K ohm	18	R224, 225, 239, 268, 269, 299, 100, 101, 102, 103, 104, 105, 106, 107, 108, 139, 265, 266
CARBON FILM RESISTOR	1/8W J TAP 33K ohm	10	R273, 274, 132, 133, 247, 248, 249, 250, 191, 192
CARBON FILM RESISTOR	1/8W J TAP 180 ohm	3	R255, 256, 110
CARBON FILM RESISTOR	1/8W J TAP 220 ohm	7	R261, 262, 270, 271, 217, 119, 142
CARBON FILM RESISTOR	1/8W J TAP 680 ohm	4	R259, 109, 110
CARBON FILM RESISTOR	1/8W J TAP 1M ohm	1	R113
CARBON FILM RESISTOR	1/8W J TAP 1K ohm	6	R131, 233, 140, 197, 134, 135
CARBON FILM RESISTOR	1/8W J TAP 2.2K ohm	7	R221, 280 193, 245, 246, 279, 289
CARBON FILM RESISTOR	1/8W J TAP 100K ohm	9	R201, 202, 212, 292, 118, 186, 112, 187, 117
CARBON FILM RESISTOR	1/8W J TAP 39K ohm	1	R223
CARBON FILM RESISTOR	1/8W J TAP 10K ohm	15	R218, 237, 238, 263, 264, 288, 228, 111, 282, 283, 284, 219, 227, 183, 184
CARBON FILM RESISTOR	1/8W J TAP 56K ohm	3	R243, 244, 137
CARBON FILM RESISTOR	1/8W J TAP 18K ohm	3	R194, 195, 196
CARBON FILM RESISTOR	1/8W J TAP 220K ohm	2	R241, 242
CARBON FILM RESISTOR	1/8W J TAP 5.6K ohm	2	R112, 229
CARBON FILM RESISTOR	1/8W J TAP 12K ohm	3	R136, 253, 254
CARBON FILM RESISTOR	1/8W J TAP 27K ohm	2	R191, 192
CARBON FILM RESISTOR	1/8W J TAP 68K ohm	1	R135
CARBON FILM RESISTOR	1/8W J TAP 15K ohm	2	R220
CARBON FILM RESISTOR	1/8W J TAP 8.2K ohm	4	R257, 258, 275, 276
LEAD WIRE	1007 AWG #26 WHITE 50 7/7	1	LD37
LEAD WIRE	1007 AWG #26 YELLOW 150 7/7	1	LD38
BROAD WIRE	3×30 mm	1	
CONNECTOR	SMK 15P 500	1	CN 33-A
CONNECTOR	SMK 11P 500	1	CN 33-B
PCB TUNER	94HB 330×197×1.65	1	(TUNER/EQ/JACK)

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
IC	STK4162 (II)	1	IC 71(701)
IC	GL 4558	1	IC 72(702)
IC	GL 7812	1	IC 74(704)
IC	GL 7912	1	IC 73(703)
IC	GL 7805	1	IC 75(705)
TRANSISTOR	2SC3860	2	Q701, 702
FERRITE RING	GP5 22.1-6.35-13.7 (W/COIL)	2	FR01, 02
TRANSISTOR	2SA608F	5	Q704, 705, 706, 709, 710
TRANSISTOR	2SC536F	3	Q703, 707, 708
TRANSISTOR	2SC3400	1	Q770
DIODE RECTIFIRE	IN5402	4	D701, 702, 703, 704
DIODE RECTIFIRE	KBL205	1	D705
DIODE RECTIFIRE	IN4002	5	D706, 707, 708, 712, 770
DIODE RECTIFIRE	IN4148	3	D709, 710, 711
RELAY	HR-CR7 CD12V	1	RLY71
PUSH TERMINAL BOARD	P4082021OP	1	JK702
CEMENT RESISTOR	2W 0.27 ohm	2	R725, 726
CF REGISTOR	1/8W 100 ohm	2	R709, 710
CF REGISTOR	1/8W 560 ohm	2	R713, 714
CF REGISTOR	1/8W 820 ohm	2	R727, 728
CF REGISTOR	1/8W 1K ohm	6	R729, 730, 749, 750, 701, 702
CF REGISTOR	1/8W 2.2K ohm	2	R707, 708
CF REGISTOR	1/8W 3.3K ohm	2	R703, 704
CF REGISTOR	1/8W 8.2K ohm	2	R731, 732
CF REGISTOR	1/8W 10K ohm	2	R737, 771
CF REGISTOR	1/8W 15K ohm	1	R738
CF REGISTOR	1/8W 22K ohm	1	R772
CF REGISTOR	1/8W 27K ohm	2	R705, 706
CF REGISTOR	1/8W 39K ohm	2	R733, 734
CF REGISTOR	1/8W 56K ohm	5	R711, 712, 739, 719, 720
CF REGISTOR	1/8W 150K ohm	1	R742
CF REGISTOR	1/8W 330K ohm	1	R740
CF REGISTOR	1/8W 47K ohm	3	R751, 752, 741
CF REGISTOR	1/2W 22 ohm	1	R746
CF REGISTOR	1/2W 4.7	2	R735, 736
CF REGISTOR	1/2W 100	3	R721, 722, 770
CF REGISTOR	1/2W 1K	4	R723, 724, 761, 762
CF REGISTOR	1/2W 2.2K	4	R715, 716, 717, 718
CF REGISTOR	1W 1K	1	R743
CF REGISTOR	2W 1K	2	R744, 745
CERAMIC CAP	33P AXIAL	2	C703, 704
CERAMIC CAP	470P T AXIAL	1	C709, 710
CERAMIC CAP	0.0047μF T AXIAL	4	CF07, 08, 15, 16
CERAMIC CAP	DISK 50V 0.022μF	2	C719, 771
CERAMIC CAP	DISK 100V 0.01μF	4	C728, 729, 730, 731
CERAMIC CAP	DISK 50V 0.01μF	5	C742, 743, 744, 732, 733
CERAMIC CAP	DISK 50V 0.1μF	12	CF12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25
ELECT CAP	2.2μF/50V (5×11)	2	C707, 708
ELECT CAP	4.7μF/50V (5×11)	2	C725, 772

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
ELECT CAP	10μF/50V (5 x 11)	5	C705, 706, 716, 723, 722
ELECT CAP	22μF/16V (5 x 11)	3	C737, 738, 739
ELECT CAP	47μF/16V (5 x 11)	2	C740, 741
ELECT CAP	100μF/50V (5 x 11)	3	C711, 712, 715
ELECT CAP	2200μF/25V	2	C735, 736
ELECT CAP	4700μF/50V	2	C726, 727
ELECT CAP	47μF/50V	3	C713, 714, 724
MYLAR CAP	104KM	3	C717, 718, 719
PCB	MAIN 94VO 197 x 122 x 1.6t	1	
WAFER	3.9mm 2P(S)	1	WF70
WAFER	2.5mm G/S 2P(S)	2	WF04, 06
WAFER	2.5mm G/S 3P(S)	1	WF10
CONNECTOR ASS'Y	2P WHT/BRN 500	1	CN05
CONNECTOR ASS'Y	2P WHT/BRN 550	1	CN11
CONNECTOR ASS'Y	3P RED/GRE/WHT 450	1	CN12
CONNECTOR ASS'Y	6P SH GRY/BRN 300	1	CN27
CONNECTOR ASS'Y	7P SH/LD GRY 400/500	1	CN08
CONNECTOR ASS'Y	6P SH RED/GRY 380/200	1	CN07
TACT SW (TUNER CONT)	EVQ-TAE05R	21	
DIODE	IN4148	4	D117, 118, 119, 120
CONNECTOR ASS'Y	11P RED/WHT 130	1	CN01
TACT SW (FUNC CONT)	EVQ-TAE05R	5	
LED	SLB-15VR (1 x 5)	5	
CF RESISTOR	1/8W J 1K ohm	5	R690, 692, 693, 694, 695
CF RESISTOR	1/8W J 10K ohm	1	R691
CONNECTOR ASS'Y	5P BLACK 280	1	CN02
CONNECTOR ASS'Y	6P BLACK 250	1	CN03
VR	EUW-MNXF20A15	1	VR610
TR	2SA 608F	1	Q610
TR	2SC 536F	2	Q604, 605
TR	2SC 3860	1	Q606
TR	2SC 3400	1	Q607
DIODE	IN4148 T	2	D607, 608
ELECTRICAL CAPACITOR	2.2μF/50V (4 x 7)	2	C690, 691
CF RESISTOR	1/8W T 15K ohm	1	R650
CF RESISTOR	1/8W T 10K ohm	5	R652, 655, 663, 664, 677
CF RESISTOR	1/8W T 68K ohm	2	R651, 667
CF RESISTOR	1/8W T 100K ohm	2	R653, 654
LED	SLC 22VR	1	
CONNECTOR ASS'Y	2P RED/WHT 150	1	CN14
CONNECTOR ASS'Y	2P RED/WHT 50	1	CN13
CONNECTOR ASS'Y	3P RED/BK/WHT 200	1	CN29
CONNECTOR ASS'Y	3P 2.5mm(A)	1	WF27
CONNECTOR ASS'Y	5P 2.5mm(A)	1	WF08
CONNECTOR ASS'Y	6P 2.5mm(S)	1	WF10
CONNECTOR ASS'Y	2P 2.5mm(S)	1	WF14
TRANS MAIN	EI 85.8 x 50	1	PT71
TRANS MAIN	EI 41 x 20	1	RT72
RELAY	HR-CR7 DC12V	1	RY72

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
DIODE	IN4002	1	D712
AC CORD	VDE 6 FEET	1	
WRAPPING PIN	1 x 1 x 15.5mm	2	TP71, 72
FUSE CLIP	D502 5.2ϕ	4	
FUSE 5 x 20	250V 100mA STD (VDE)	1	F701
FUSE 5 x 20	250V 1.25A STD (VDE)	1	F702
FERRITE RING	GP-5 22.1 x 6.35 x 13.7	1	FR03
LINE CAP	ECK-NS472ME	1	C746
CERAMIC CAP	DISK 50V 0.022μF	1	C745
CF RES'S	1/8W 4.7K J	1	R759
CF RES'S	1/8W 47K J	1	R760
TRANSISTOR	2SD 400F	1	Q711
CONNECTOR ASS'Y	5P RED/WHT 450	1	CN30
CONNECTOR ASS'Y	8P YEL/WHT 300	1	CN36
TUBE	UL BLACK 5ϕ x 20	2	(HITCH TUBE)
PCB POWER	94VO 163 x 122 x 1.6t	1	
IC	LC7561	1	IC501
IC	GL324	1	IC502
IC	GL4558	1	IC503
TR	2SC536F	2	Q501, 502
DIODE	IN4148 (SWITCHING)	6	D501, 502, 503, 504, 505, 506
LCD	CG740-TTNC(A)	1	LCD501
LAMP	4.1ϕ12V 80mA (PCB TYPE)	2	PL501, 502
CF RESISTOR	1/8W 220	1	R516
CF RESISTOR	1/8W 330	1	R512
CF RESISTOR	1/8W 470	1	R511
CF RESISTOR	1/8W 2.7K	1	R510
CF RESISTOR	1/8W 4.7K	1	R508
CF RESISTOR	1/8W 5.6K	1	R514
CF RESISTOR	1/8W 8.2K	1	R515
CF RESISTOR	1/8W 10K	1	R524
CF RESISTOR	1/8W 27K	1	R525
CF RESISTOR	1/8W 39K	1	R529
CF RESISTOR	1/8W 47K	7	R527, 528, 530, 532, 537, 538, 540
CF RESISTOR	1/8W 75K	2	R513, 526
CF RESISTOR	1/8W 82K	1	R521
CF RESISTOR	1/8W 100K	2	R517, 518
CF RESISTOR	1/8W 150K	5	R519, 522, 531, 534, 535
CF RESISTOR	1/8W 180K	1	R520
CF RESISTOR	1/8W 470K	2	R523, 533
CF RESISTOR	1/8W 560K	1	R536
CF RESISTOR	1/8W 680K	2	R507, 509
CF RESISTOR	1/8W 4.7K	1	R539
ELECT CAPACITOR	2.2μF/50V (5 x 11)	1	C559
ELECT CAPACITOR	3.3μF/50V (5 x 11)	6	C544, 548, 553, 555, 554, 547
ELECT CAPACITOR	220μF/16V (5 x 11)	1	C538
ELECT CAPACITOR	10μF/50V (5 x 11)	3	C531, 533, 534
MYLAR CAPACITOR	102μF/50V (5 x 11)	2	C550, 549
MYLAR CAPACITOR	272μF/50V (5 x 11)	2	C540, 541

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
MYLAR CAPACITOR	332μF/50V (5×11)	1	C537
MYLAR CAPACITOR	103μF/50V (5×11)	2	C551, 552
MYLAR CAPACITOR	473μF/50V (5×11)	1	C535
CERAMIC CAPACITOR	100P AXIAL	1	C532
CERAMIC CAPACITOR	470P AXIAL	2	C542, 543
CERAMIC CAPACITOR	820P AXIAL	2	C545, 546
REMOCON SENSOR	KRM-19-1	1	RM51
CON ASS'Y	2P GN/WHT 230	1	CN06
CON ASS'Y	3P RED/WHT 200	1	CN9
CON ASS'Y	4P YEL/WHT 200/GN 150	1	CN26
LEAD WIRE	3P BLACK 200	1	LD31
PCB	EQ LCD/T CNT/F CNT/VR (94HB 219×327×1.6t)	1/2	
IC	LA3600	2	IC502, 503
CARBON RESISTOR	1/8W 180	2	R503, 504
CARBON RESISTOR	1/8W 1K	2	R501, 502
CARBON RESISTOR	1/8W 10K	2	R505, 506
CARBON RESISTOR	1/8W 3.3K	2	R656, 657
CARBON RESISTOR	1/8W 27K	2	R505, 506
CARBON RESISTOR	1/8W 22K	1	R281
CERAMIC CAPACITOR	DISK 0.1μF 50V FZ	1	CF11
VOLUME	EWA-SAVT50B54	5	VR501, 502, 503, 504, 505
ELECT CAPACITY	0.22μF/50V (4×7)	4	C516, 515, 634, 635
ELECT CAPACITY	0.68μF/50V (4×7)	2	C513, 514
ELECT CAPACITY	3.3μF/50V (5×11)	2	C501, 502
ELECT CAPACITY	10μF/50V (5×11)	2	C529, 530
ELECT CAPACITY	22μF/16V (5×11)	2	C525, 526
ELECT CAPACITY	47μF/16V (5×11)	2	C523, 524
CERAMIC CAP	390P B AXIAL	2	C511, 512
CERAMIC CAP	102KC B AXIAL	2	C527, 528
MYLAR CAPACITOR	122KM	2	C509, 510
MYLAR CAPACITOR	392KM	2	C507, 508
MYLAR CAPACITOR	682KM	2	C521, 522
MYLAR CAPACITOR	123KM	2	C505, 506
MYLAR CAPACITOR	223KM	2	C519, 520
MYLAR CAPACITOR	393KM	2	C503, 504
MYLAR CAPACITOR	683KM	2	C517, 518
WAFER	2.5m/m 2P(S)	1	WF56
WAFER	2.5m/m 3P(S)	1	WF27
CONNECTOR ASS'Y	2P WHT/QRG 250	1	CN04
CONNECTOR ASS'Y	3P SH GRY 300	1	CN10
CONNECTOR ASS'Y	4P SH GRY/WHT 250	1	CN25
PUSH SW	SPEA 12	2	SW61, 62
HEADPHONE JACK	HLJ2315-01-3140(G)	2	
MIC VOLUME	V016L12-7PHN 100K	1	
BALANCE VR	RK 16K 50KW	1	
CF REGISTOR	1/8W 47K	1	R756
CF REGISTOR	1W 1K	2	R754, 755
CERAMIC CAPACITOR	AXIAL 0.022μF	1	C752
WAFER	2.5m/m 3P(A)	1	WF10
WAFER	2.5m/m 6P(A)	1	WF07
CONNECTOR	3P BK/RD/WHT 330	1	CN32
CONNECTOR	6P SH GRY 250	1	CN28

■ TAPE·CDP PART'S LIST

• MECHANICAL PARTS LIST

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
CABINET FRONT	HIPS SPRAY SILK	1	
DOOR CASSETTE "R"	ABS SPRAY SILK "A" DECK	1	
DOOR CASSETTE "L"	ABS SPRAY SILK "B" DECK	1	
DOOR CD	ABS SPRAY SILK (20×140)	1	
KNOB DECK "A"	ABS SILK DECK "PLAY" ▶	2	
KNOB DECK "A"	ABS SILK DECK "FF" ▶▶	2	
KNOB DECK "A"	ABS SILK DECK "REW" ◀◀	2	
KNOB DECK "A"	ABS SILK DECK "STOP/EJECT" ■/⏏	2	
KNOB DECK "A"	ABS SILK DECK "PAUSE" ▮▮	1	
KNOB DECK "A"	ABS SILK DECK "REC" ●	1	
KNOB DECK "A"	ABS SILK DECK "DIR MODE"	1	
KNOB DECK "A"	ABS SILK DECK "DIRECTION" ◀ ▶	1	
KNOB DECK "B"	ABS SILK DECK "PLAY" ▶	1	OPTION (AUTO STOP ONLY)
KNOB CD FUNCTION "A"	ABS SILK, SPRAY	1	
KNOB CD FUNCTION "B"	ABS SILK, SPRAY	1	
KNOB HIGH SPEED	ABS SPRAY	2	
WINDOW TAPE "L"	ACRYL SILK (59×69.4)	1	
WINDOW TAPE "R"	ACRYL SILK (59×69.4)	1	
WINDOW CD LCD	ACRYL SILK (25×139.8)	1	
REFLECTOR CD LCD	ACRYL CLEAR 23×110	1	
FOOT	ABS (5.5T×ϕ20)	2	
GEAR DAMPER ASS'Y	POM (G-332, DH-01)	1	
FILTER CD LDC	PC SILK (0.2×20.7×106.5)	1	
SPRING DOOR	SUS 304ϕ0.8	2	
MILLOR TAPE	ART PAPER 11.8×19.8 (SILVER)	2	
CABINET TOP	EGI 0.8T BLACK SPRAY	1	
CABINET BOTTON	EGI 0.8T	1	
CHASSIS CD	EGI 0.8T (203×271.8)	1	
PANEL REAR	EGI 0.8T BLACK SPRAY (272×74.1)	1	
COVER LAMP	SPTE 0.3T CD LCD LAMP (24×9.5×H8.5)	2	
SPRING REC ASS'Y	SUS 304 T0.4+EGI T1.0	1	
CD HEAT SINK	Aℓ (H 30)	1	
BKT (CABINET)	EGI 12.5×15×T10	2	
CUSHION FOOT A	ϕ15.5×3T	2	
CUSHION FOOT B	ϕ13.5×3T	2	
FIBER	15×10×T0.5	1	CENTER ϕ3.5 HOLE
FIBER WASHER	ϕ3.5×ϕ8×t0.5	3	DOOR+DIRECTION PCB(1), CD CONTROL PCB(1), CD LCD PCB(1)
SNOW BOX TOP	EPS (340×323)	1	
SNOW BOX BUTTOM	EPS (340×323)	1	
POLY BAG	PE (500×1000×t1.0, SHEET)	1	
HIMELON TAPE	130×20×t0.5	1	CD LCD PCB+FRONT C/B
CD CAUTION LABEL	PAPER	1	
SCREW TAPPING	BH 2.6×8 ZN (WHITE)	12	FRONT+CONTROL PCB(4)/FRONT+CD LCD PCB(2) FRONT+HIGH S/P PCB(2)/FRONT+TAPE SEL PCB(2) DOOR+DIRECTION PCB(1)/DOOR+REC LCDPCB(1)
SCREW TAPPING	BH 3×6 CUT ZN (WHITE)	18	BOTTOM+DECK PCB(5)/BOTTOM+CD MAIN PCB(4)

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
SCREW TAPPING	BH 3×10 ZN (WHITE)	7	BOTTOM+CHASSIS CD(4)/CD DECK+CHASSIS CD(3)
SCREW TAPPING	BH 3×10 BK	2	BOTTOM+FOOT(2)
SCREW TAPPING	M3×6 ZN (WHITE)	2	BOTTOM+REAR(4)/BOTTOM+TOP PANEL(4)
			BKT(C/D)/TOP PANEL(2)/REAR+TOP PANEL(2)
			BOTTOM+FRONT C/D(4)
SCREW TAPPING	BH 3×6 CUT BK	16	FRONT+DAMPER GEAR
			FRONT+DECK
			REAR+CONNECTOR JACK
SCREW TAPPING	WPH 3×8 ZN (WHITE)	2	CD HEAT SINK+IC

• ELECTRICAL PARTS LIST

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
LCD	CG738-TTNC(A)	1	LCD 301
IC	CXA1081S	1	IC301
IC	CXA1082S	1	IC302
IC	CXD1167Q	1	IC303
IC	CXP1011Q	1	IC304
IC	LC7881	1	IC305
IC	GL4558D	3	IC306, 307, 308
IC	GL7805	1	IC309
IC	GL7905	1	IC310
T.R.	2SA608F	7	Q301, 303, 309, 311, 318, 322, 323
T.R.	2SC536F	10	Q302, 308, 310, 314,
			315, 316, 317, 319, 321, 325
T.R.	2SB544F	3	Q324, 305, 307
T.R.	2SD400F	3	Q320, 304, 306
T.R.	2SA1497	8	Q331, 332, 333, 334, 335, 336, 337, 338
T.R.	2SC3400	2	Q312, 313
DIODE	IN4148T	3	D301, 302, 303
DIODE	IN4002	4	D304, 305, 306, 307
X-TAL	16.9333MHz	1	XL301
TACT SW		10	SW301, 302, 303, 304, 305, 306, 307,
			308, 309, 310
PILOT LAMP	4.1μ FUSE TPE 12V 110MA(LS)	2	PI301, 302
SEMI VOLUME	20KB	4	VR301, 302, 303, 304
SEMI VOLUME	1KB	1	VR305
CF RESISTOR	1/8W T2.2 ohm	2	R317, 322
CF RESISTOR	1/8W T22 ohm	1	R301
CF RESISTOR	1/8W T100 ohm	3	R308, 366, 375
CF RESISTOR	1/8W T470 ohm	3	R360, 361, 377
CF RESISTOR	1/8W T560 ohm	2	R367, 374
CF RESISTOR	1/8W T1K ohm	10	R303, 309, 343, 346, 348, 380, 381, 382,
			306, 307
CF RESISTOR	1/8W T1.5K ohm	2	R362, 363
CF RESISTOR	1/8W T1.8K ohm	1	R368
CF RESISTOR	1/8W T2.2K ohm	1	R372
CF RESISTOR	1/8W T2.7K ohm	3	R347, 349, 370
CF RESISTOR	1/8W T3.3K ohm	2	R331, 364
CF RESISTOR	1/8W T4.7K ohm	4	R344, 345, 371, 376
CF RESISTOR	1/8W T5.6K ohm	4	R351, 355, 356, 359

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
CF RESISTOR	1/8W T 6.8K ohm	1	R314
CF RESISTOR	1/8W T 8.2K ohm	2	R325,375
CF RESISTOR	1/8W T 10K ohm	12	R305, 311, 313, 315, 316, 328, 340, 369, 373
CF RESISTOR	1/8W T 22K ohm	8	R302, 310, 335, 341, 342, 357, 358
CF RESISTOR	1/8W T 33K ohm	1	R319
CF RESISTOR	1/8W T 82K ohm	1	R318
CF RESISTOR	1/8W T 100K ohm	9	R304, 323, 324, 333, 336, 337, 329, 320, 321
CF RESISTOR	1/8W T 120K ohm	2	R327, 332
CF RESISTOR	1/8W T 470K ohm	3	R352, 353, 365
CF RESISTOR	1/8W T 510K ohm	1	R326
CF RESISTOR	1/8W T 1M ohm	1	R334
CF RESISTOR	1/8W T 270K ohm	2	R350, 354
CF RESISTOR	1/8W T 150K ohm	2	
CERAMIC CAP	10P T	3	C338, 339, 366
CERAMIC CAP	33P T	2	C330, 331
CERAMIC CAP	271 T	2	C348, 349
CERAMIC CAP	181 T	1	C319
CERAMIC CAP	101 T	2	C327, 301
CERAMIC CAP	473 T	1	C334
CERAMIC CAP	473 T	2	C360, 361
MYLAR CAP	392 T	4	C342, 345, 348, 351
MYLAR CAP	682 T	1	C311
MYLAR CAP	472 T	3	C323, 322, 303
MYLAR CAP	103 T	4	C308, 309, 316, 307
MYLAR CAP	333 T	3	C312, 320, 328
MYLAR CAP	473 T	2	C341, 347
MYLAR CAP	104 T	2	C318, 321
ELECT CAPACITOR	50V 3.3μF (SM)	1	C314
ELECT CAPACITOR	50V 0.47μF (SM)	2	C306, 329
ELECT CAPACITOR	50V 1μF (SM)	1	C324
ELECT CAPACITOR	50V 4.7μF (SM)	4	C317, 325, 344, 350
ELECT CAPACITOR	50V 10μF (SM)	3	C315, 340, 346
ELECT CAPACITOR	16V 47μF (SM)	7	C304, 305, 302, 313, 326, 333, 335
ELECT CAPACITOR	16V 100μF (SM)	7	C337, 352, 353, 354, 355, 356, 357
ELECT CAPACITOR	25V 2200μF (SM)	2	C358, 359
PCB	MAIN	1	195 x 139
PCB	CONTROL "A"	1	61.5 x 52
PCB	CONTROL "B"	1	61.5 x 52
DECK	KSL-2102AAM	1	
WIRE ASSY			
WIRE ASSY	NO15200(LCD 10PIN CONNECTOR)	1	
WIRE ASSY	NO16200(LCD 8PIN CONNECTOR)	1	
WIRE ASSY	NO17200(KEY BOARD CONNECTOR)	1	
WIRE ASSY	NO18200(PICK-UP CONNECTOR)	1	
WIRE ASSY	NO19300(REMOCON CONNECTOR)	1	
WIRE ASSY	NO20200(OPEN/CLOSE CONNECTOR)	1	
WIRE ASSY	NO21250(SPINDLE/SELD CONNECTOR)	1	
WIRE ASSY	NO22180(CONTROL PCB CONNECTOR)	1	
WIRE ASSY	NO23250(DATA 8PIN SHOELD)	1	
WIRE ASSY	NO24200(LCD 7PIN CONNECTOR)	1	

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
ELEC CAPACITOR	10μF/16V 5×11	3	C422, 426, 493
ELEC CAPACITOR	22μF/16V 5×11	5	C403, 404, 423, 406, 407
ELEC CAPACITOR	47μF/16V 5×11	2	C401, 402
ELEC CAPACITOR	100μF/10V 5×11	5	C412, 414, 417, 418, 421
ELEC CAPACITOR	220μF/10V 6.3×11	1	C496
ELEC CAPACITOR	220μF/160V 8×11.5	1	C427
IC(TAPE REC)	BA-3312N	1	IC42
IC(SWITCHING)	BA-4066B	1	IC43
IC(REGULATOR)	GL-7809	1	IC44
IC(REGULATOR)	GL-7812	1	IC45
DIOIDE	IN4002	6	D401, 402, 403, 404, 405, 406
DIOIDE	IN4148	4	D407, 408, 409, 410
LED	SLB 55 VR(RED)	1	LD41
LED	SLB 55 GG(GREEN)	2	LD42, 43
TR	2SC536F	8	Q401, 402, 403, 405, 406, 407, 408, 417
TR	2SA608F	1	Q413
TR	2SD400F	1	Q414
TR	2SA1346 or R2003	1	Q415, 416
TR	2SC3400	4	Q410, 411, 412, 409
SEMI VOLUME RESISTOR	B5K	2	SR41, 42
COIL(CHOCK)	33mH	2	L401, 402
COIL(BIAS OSC)	1000BT	1	T407
PUSH SW (SPEED/N.M)	KPA2203	2	SW42, 43
SLIDE SW (REC)	6C2P-SHOTING (KSC-6222)	1	SW41
DECK MECHA	TN-521ZSW (AUTOREVERSE)	1	
CARBON FILM RESISTOR	1/8W J 10 ohm	1	R427
CARBON FILM RESISTOR	1/8W J 33 ohm	2	R405, 406
CARBON FILM RESISTOR	1/8W J 100 ohm	1	R448
CARBON FILM RESISTOR	1/4W J 120 ohm	1	R429
CARBON FILM RESISTOR	1/8W J 220 ohm	4	R463, 464, 489, 434
CARBON FILM RESISTOR	1/8W J 1K ohm	2	R454, 451
CARBON FILM RESISTOR	1/8W J 1.2K ohm	2	R438, 439
CARBON FILM RESISTOR	1/8W J 2.2K ohm	6	R411, 412, 465, 485, 486, 453
CARBON FILM RESISTOR	1/8W J 3.3K ohm	4	R413, 414, 430, 431
CARBON FILM RESISTOR	1/8W J 3.9K ohm	1	R450
CARBON FILM RESISTOR	1/8W J 4.7K ohm	5	R407, 408, 415, 416, 456
CARBON FILM RESISTOR	1/8W J 10K ohm	6	R417, 418, 459, 460, 461, 462
CARBON FILM RESISTOR	1/8W J 5.6K ohm	1	R452
CARBON FILM RESISTOR	1/8W J 12K ohm	2	R424, 425
CARBON FILM RESISTOR	1/8W J 15K ohm	6	R426, 440, 441, 487, 488, 484
CARBON FILM RESISTOR	1/8W J 33K ohm	2	R458, 421
CARBON FILM RESISTOR	1/8W J 39K ohm	2	R432, 433
CARBON FILM RESISTOR	1/8W J 47K ohm	2	R419, 420
CARBON FILM RESISTOR	1/8W J 100K ohm	2	R455, 481
CARBON FILM RESISTOR	1/8W J 120K ohm	2	R409, 410
CARBON FILM RESISTOR	1/8W J 220K ohm	4	R442, 443, 444, 445
CARBON FILM RESISTOR	1/8W J 27K ohm	1	R482
CARBON FILM RESISTOR	1/8W J 1M ohm	1	R437
ELEC CAPACITOR	2.2μF/50V 5×11	6	C415, 416, 419, 420, 497, 498
ELEC CAPACITOR	4.7μF/50V 5×11	1	C408

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
CARBON FILM RESISTOR	1/2W J 10 ohm	1	R428
CARBON FILM RESISTOR	1/8W J 82K ohm	2	R422, 423
CARBON FILM RESISTOR	1/8W J 82 ohm	2	R434, 435
WAFER	4PIN (2.5M/M) GOLD STAR	3	WF01, WF03, WF04
WAFER	5PIN (2.5M/M) GOLD STAR	1	WF02
WAFER	7PIN (2M/M) ELCO	1	WF07
WAFER	8PIN (2M/M) ELCO	4	WF06, WF08, WF05, WF10
TEST PIN		2	TP1, TP2
IC (TAPE PLAY)	BA-3416BL	1	IC41
ELEC CAPACITOR	470μF/16V 10×112.5	1	C413
ELEC CAPACITOR	2200μF/25V 16×25	1	C425
CERAMIC CAPACITOR	FZ DISK 0.022μF 50V	4	C451, 452, 461, 492
CERAMIC CAPACITOR	AXIAL BK 0.022μF 50V	1	C491
CERAMIC CAPACITOR	AXIAL BK 220PF	2	C457, 458
CERAMIC CAPACITOR	AXIAL BF 330PF	2	C455, 456
MYLAR CAPACITOR	0.001μF 100V K	6	C471, 472, 473, 474, 494, 495
MYLAR CAPACITOR	0.0018μF 100V K	1	C483
MYLAR CAPACITOR	0.0033μF 100V K	2	C481, 482
MYLAR CAPACITOR	0.022μF 100V K	6	C475, 476, 478, 484, 485
WAFER	G/S 2.5m S 2P	3	WF45, 47, 44
WAFER	G/S 2.5m S 3P	2	WF41, 42
WAFER	G/S 2.5m S 4P	2	WF46, 49
WAFER	G/S 2.5m S 6P	1	WF48
WAFER	G/S 2.5m S 9P	1	WF43
WAFER	SMK 11P	1	JK41
CONNECTOR ASS'Y	NO37 NOR/CR02 4P 350m/m	1	
CONNECTOR ASS'Y	NO38 NOTPR 9P 250m/m	1	
CONNECTOR ASS'Y	NO39 REC/PLAY 6P 170m/m	1	
CONNECTOR ASS'Y	NO40 PLAY 4P 170m/m	1	
CONNECTOR ASS'Y	NO41 HI SPEED 2P 180m/m	1	
CONNECTOR ASS'Y	NO42 E/HEAD 2P 120m/m	1	
CONNECTOR ASS'Y	NO43 3P 400m/m	1	
CONNECTOR ASS'Y	NO44 DIR/SW 3P 350m/m	1	
CONNECTOR ASS'Y	NO45 REC LAMP 2P 250m/m	1	
BINDING WIRE	50m/m	3	
JUMPER WIRE	5m/m	7	
JUMPER WIRE	6m/m	1	
JUMPER WIRE	8m/m	11	
JUMPER WIRE	10m/m	9	
JUMPER WIRE	12m/m	4	
CERAMIC CAPACITOR	AXIAL BK 270PF	2	C459, 460

■ REMOCON PARTS LIST

• MECHANICAL PARTS LIST

DESCRIPTION	SPECIFICATION	Q'TY	REMARK
CABINET TOP	ABS (175×62)	1	
CABINET BOTTOM	ABS (175×62)	1	
COVER BATTERY	ABS	1	
WINDOW LED	ACRYL	1	
PLATE FUNCTION	P.C SHEET 0.5T SILK	1	
RUBBER CONTACT	SILICON RUBBER (28KEY 102.2×53.2)	1	
SPRING BATT. A	SUS 304 ϕ0.5×ϕ7×3T×4T (+, −)	1	
SPRING BATT. B	SWP ϕ0.5×ϕ7×4TURNX×11.5	1	
SPRING BATT. C	SWP ϕ0.5×ϕ7×4TURNX×27	1	
SCREW TAPPING	FH ϕ2.8 BK	2	
POLY BAG	PE 0.04T W90×250ℓ	1	

• ELECTRICAL PARTS LIST

DESCRIPTION	SPECIFICATION	Q'TY	REMARKS
IC	TC9243	1	IC801
DIODE	EL-IL1	1	D801, 802
TRANSISTOR	2SC536-F	1	Q301
CF RESISTOR	2 1/8W	1	R803
CF RESISTOR	270 1/8W	1	R802
CF RESISTOR	6.8K 1/8W	1	R801
ELECT CAP	47UF/10V (5×11)	1	C803
CERAMIC CAP	100P	2	C801, 802
CERAMIC RESONATOR	CBS455E	1	X801
LED	SLC-22VR	1	